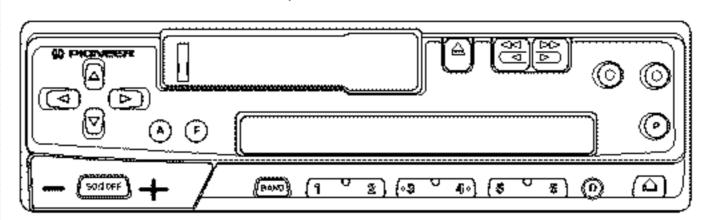
(PIONEER® The Art of Entertainment

Service Manual

• KEH-P27R/X1M/GR



ORDER NO. CRT2108

MULTI-CD CONTROL HIGH POWER CASSETTE PLAYER WITH RDS TUNER

KEH-P27R XIM/GR HIGH POWER CASSETTE PLAYER WITH RDS TUNER KEH-2720R XIM/GR

NOTE:

- See the separate manual CX-644(CRT1800) for the cassette mechanism description.
- The cassette mechanism assy employed in this model is one of 2M series.
- This service manual does not describe the CD test mode.
 For the operations in the CD test mode, refer to the CD player's Service Manual.

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING

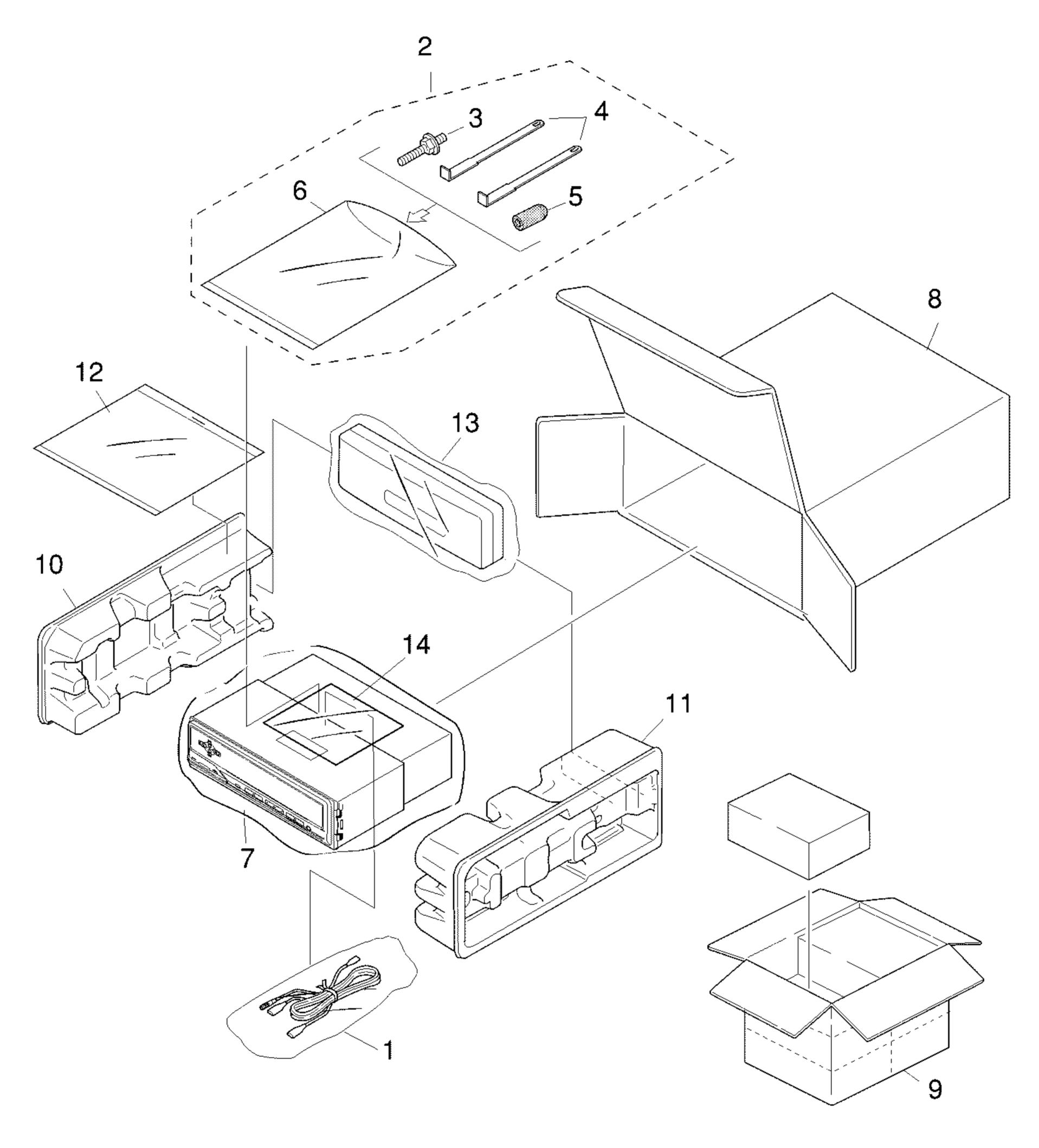


Fig. 1

NOTE:

- Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.
- lacktriangle Screws adjacent to ∇ mark on the product are used for disassembly.

PACKING SECTION PARTS LIST

			Par	t No.
Mark	No.	Description	KEH-P27R/X1M/GR	KEH-2720R/X1M/GR
	1	Cord Assy	CDE5497	CDE5498
	2	Accessory Assy	CEA1917	CEA1917
	3	Screw	CBA1304	CBA1304
	4	Handle(x2)	CNC5395	CNC5395
	5	Bush	CNV3930	CNV3930
*	6	Polyethylene Bag	E36-615	E36-615
	7	Polyethylene Bag	CEG-162	CEG-162
	8	Carton	CHG3344	CHG3350
	9	Contain Box	CHL3344	CHL3350
	10	Protector	CHP1622	CHP1622
	11	Protector	CHP1623	CHP1623
	12-1	Owner's Manual	CRB1418	CRB1407
	12-2	Installation Manual	CRB1411	CRB1408
*	12-3	Passport	CRY1013	CRY1013
*	12-4	Warranty Card	CRY1087	CRY1087
	13	Case Assy	CXB1063	CXB1063
*	14	Caution Card	CRP1172	CRP1172

Owner's Manual, Installation Manual

Model	Part No.	Language
KEH-P27R/X1M/GR	CRB1418	German
	CRB1411	German
KEH-2720R/X1M/GR	CRB1407	German
	CRB1408	German

2.2 EXTERIOR

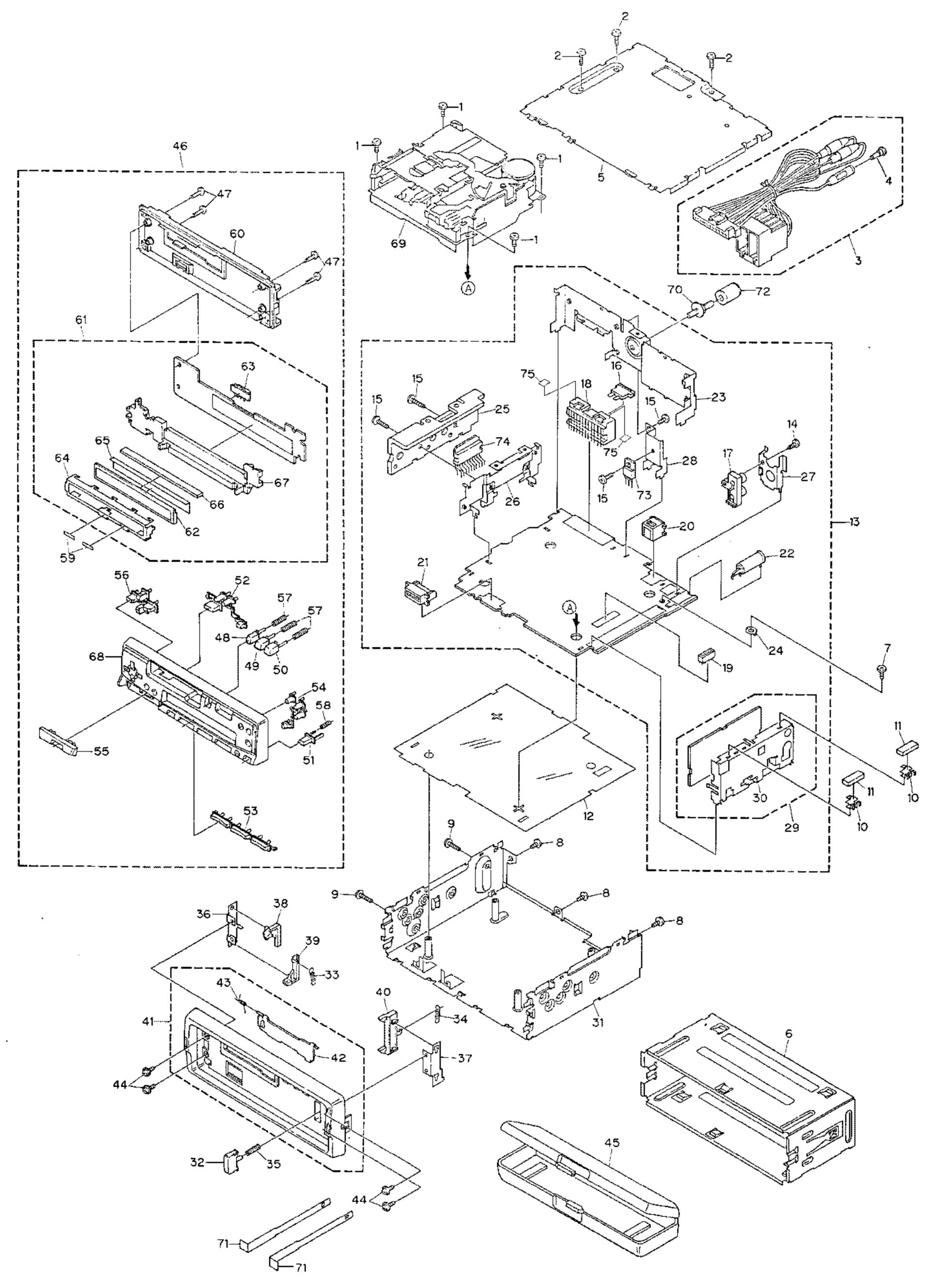


Fig. 2

(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark No.	Description	Part No.
	1	Screw	BSZ26P050FMC	41	Panel Unit	CXA9848
	2	Screw	BSZ30P100FMC	42	Door	CAT1835
	3	Cord Assy	See Contrast table(2)	43	Spring	CBH1838
		Terminal Cover	CKX-003		Screw	IMS20P030FZK
	5	Case	CNB2074	45	Case Assy	CXB1063
	e	Holder	Con Contract table (2)	A.C.	Datach Grilla Acou	Coo Contract table(1)
	-		See Contrast table(2)		Detach Grille Assy	See Contrast table(2) BPZ20P120FZK
		Screw	BSZ30P055FUC		Screw Button(⊜)	
		Screw	BSZ30P060FMC		Button()	CAC4867
		Screw	BSZ30P100FMC			CAC4868
	10	Holder	CNC5704	50	Button(▷▷)	CAC4869
	11	Cushion	CNM4870	51	Button(🔷)	CAC4993
	12	Insulator	CNM5025	52	Button(SOURCE, A, F, BAND)	CAC5306
	13	Tuner Amp Unit	See Contrast table(2)	53	Button(1-6)	CAC5308
	14	Screw	See Contrast table(2)	54	Button(TA/AF, PTY, P, D)	CAC5320
	15	Screw	BSZ26P080FMC	55	Button(VOL+,VOL-)	CAC5322
	16	Fuse(10A)	CEK1136	56	Button	CAC5324
		Pin Jack(CN401)	See Contrast table(2)		Spring	CBH1836
		Plug(CN601)	CKM1270		Spring	CBH2103
		Connector(CN604)	CKS3362		Spacer	CNM5319
		Connector(CN602)	See Contrast table(2)		Cover	CNS4628
	21	Connector(CN603)	CKS3581	61	Keyboard Unit	See Contrast table(2)
		Antenna Jack(CN301)	CKX1056		LCD(LCD901)	CAW1391
		Panel	See Contrast table(2)		Connector(CN901)	CKS3580
		Holder	CNC5399		Holder	CNC6846
		Heat Sink	CNC6217		Reflector	CNC0840 CNM5542
	25	Heat Sink	CINCOZII	03	Nenector	CIVIVIOU4Z
	26	Holder	CNC6372	66	Connector	CNV4763
	27	Holder	See Contrast table(2)	67	Lighting Conductor	CNV5074
	28	Holder	CNC6845	68	Grille Unit	See Contrast table(2)
	29	FM/AM Tuner Unit	CWE1470	69	Cassette Mechanism Assy	EXK3458
	30	Holder	CNC6554	70	Screw	CBA1304
	31	Chassis Unit	See Contrast table(2)	71	Handle	CNC5395
		Button	CAC4836		Bush	CNV3930
		Spring	CBH1834		Transistor(Q801)	2SD2037
		Spring	CBH1835		IC(IC501)	HA13155
		Spring	CBH1996		Spacer	CNM5739
	36	Bracket	CNC6135			
		Bracket	CNC6791			
		Arm	CNC0731 CNV4692			
		Arm	CNV4692 CNV4693			
		Arm	CNV4033 CNV4728			
	40	731111	OINV T/ZO			

(2) CONTRAST TABLE KEH-P27R/X1M/GR and KEH-2720R/X1M/GR are constructed the same except for the following:

		Part	No.
Mark No.	Symbol and Description	KEH-P27R/X1M/GR	KEH-2720R/X1M/GR
3	Cord Assy	CDE5497	CDE5498
6	Holder	CNC6798	CNC5394
13	Tuner Amp Unit	CWM5518	CWM5522
14	Screw	BPZ26P080FMC	Not Used
17	Pin Jack(CN401)	CKB1035	Not Used
20	Connector(CN602)	CKS3408	Not Used
23	Panel	CNB2245	CNB2246
27	Holder	CNC6531	Not Used
31	Chassis Unit	CXB1664	CXB1667
46	Detach Grille Assy	CXB1721	CXB1726
61	Keyboard Unit	CWM5527	CWM5531
68	Grille Unit	CXB1652	CXB2320(Assy)

2.3 CASSETTE MECHANISM ASSY

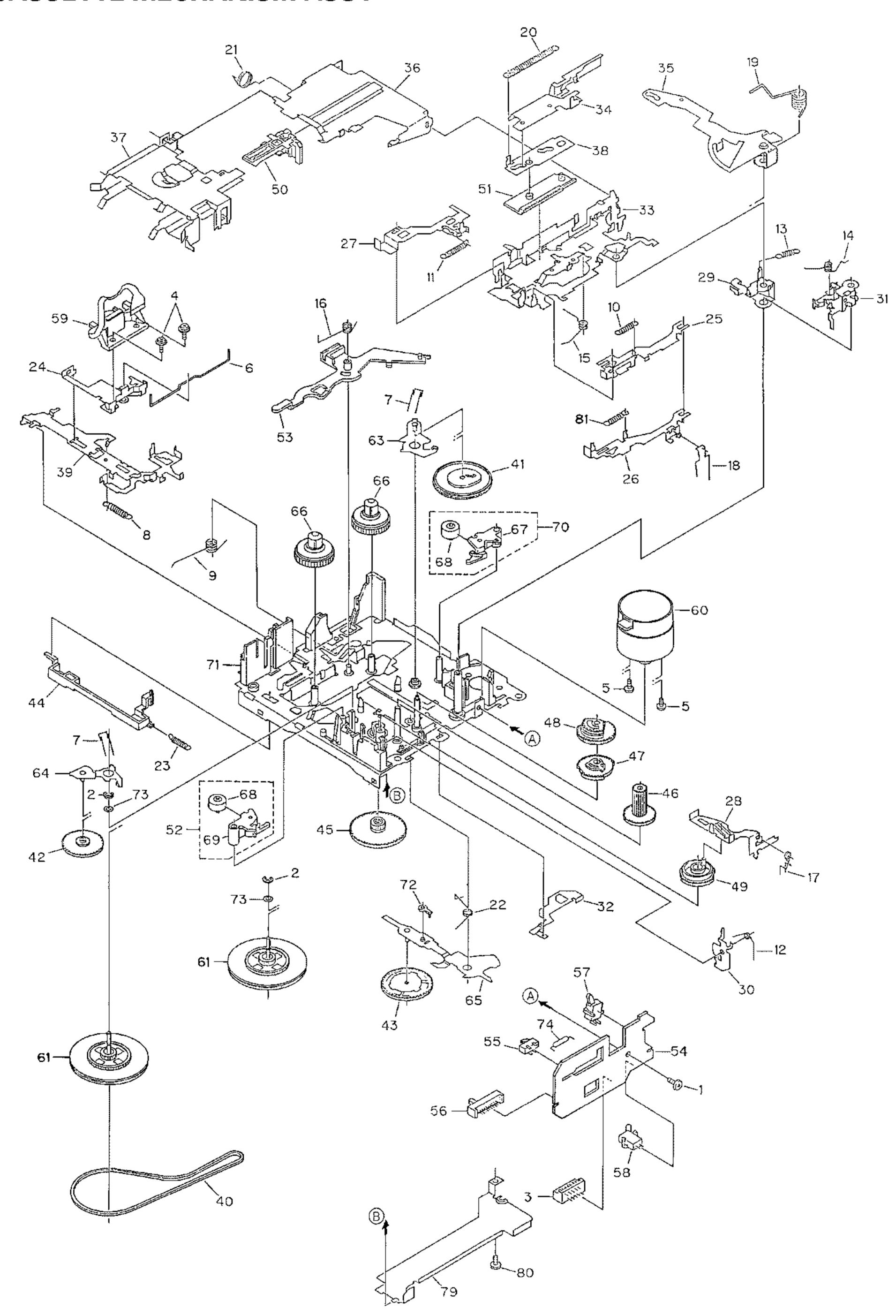


Fig. 3

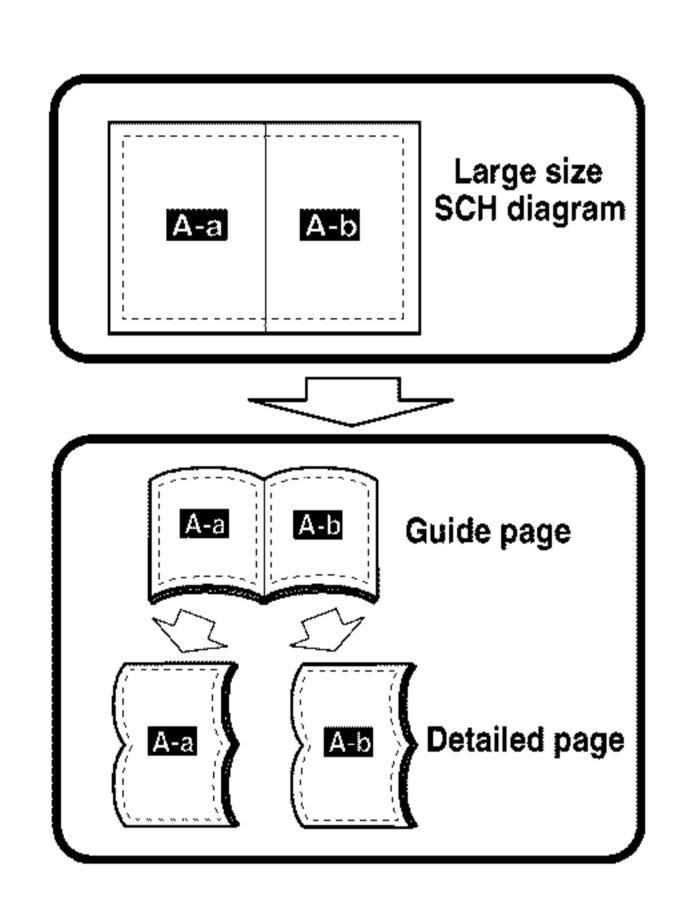
• CASSETTE MECHANISM ASSY SECTION PARTS LIST

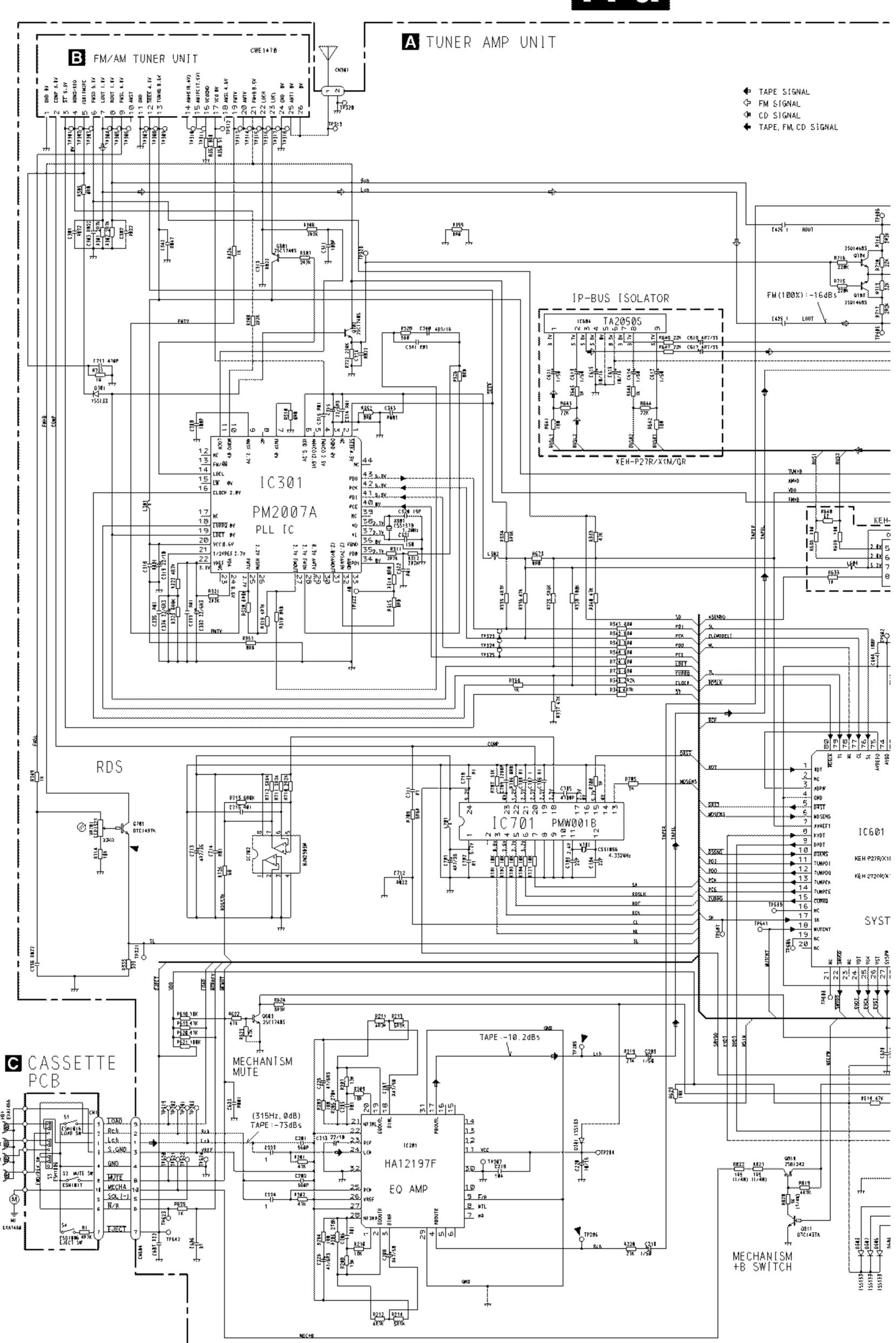
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ23P050FMC	41	Gear	ENV1504
2	Washer	CBG1003	42	Gear	ENV1470
3	Connector(CN1)	CKS2829	43	Gear	ENV1517
	Screw(M2x5)	EBA1038		Lever	ENV1472
	Screw(M2x2.5)	EBA1037		Gear	ENV1510
	OOIOII(IVIEXEIO)	25/1100/	.0		
6	Spring	EBH1554	46	Gear	ENV1475
7	Spring	EBH1555	47	Gear	ENV1512
8	Spring	EBH1556	48	Gear	ENV1513
9	Spring	EBH1557	49	Gear	ENV1502
10	Spring	EBH1591	50	Lever	ENV1480
11	Carina	EDU1550	E 1	Lover	ENI\/1407
	Spring	EBH1559		Lever	ENV1487
	Spring	EBH1593		Pinch Holder Unit	EXA1516
	Spring	EBH1561		Arm	ENV1489
	Spring	EBH1562		PCB	ENP1161
15	Spring	EBH1563	55	Switch(Eject)(S4)	ESG1006
16	Spring	EBH1590	56	Switch(FWD)(REV)(S3)	ESH1006
	Spring	EBH1565	57	Switch(Load)(S1)	ESN1016
	Spring	EBH1566		Switch(Mute)(S2)	ESN1017
	Spring	EBH1567		Head Assy(HD1)	EXA1466
	Spring	EBH1568		Motor Unit(M1)	EXA1467
21	Spring	EBH1569	61	Flywheel Unit	EXA1468
22	Spring	EBH1571	62	••••	
23	Spring	EBH1579	63	Arm Unit	EXA1447
24	Head Base	ENC1475	64	Arm Unit	EXA1448
25	Lever	ENC1429	65	Arm Unit	EXA1449
26	Lever	ENC1430	66	Reel Unit	EXA1450
	Lever	ENC1430		Pinch Holder	ENV1466
	Lever	ENC1432		Pinch Roller	ENV1518
	Arm	ENC1433		Pinch Holder	ENV1467
30	Arm	ENC1434	70	Pinch Holder Unit	EXA1515
31	Arm	ENC1480	71	Chassis Unit	EXA1498
32	Arm	ENC1476	72	Service Arm	EXX1048
33	Bracket	ENC1477	73	Washer	HBF-179
34	Lever	ENC1483	74	Resistor(R1)	RD1/4HM472J
	Arm	ENC1439	75-78	·	
22	Гиана a	ENIC1440	70	C	ENICAACO
	Frame	ENC1440		Cover	ENC1452
	Holder	ENC1441		Screw	BSZ23P050FMC
	Lever	ENC1446	81	Spring	EBH1592
	Lever	ENC1478			
40	Belt	ENT1027			

3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".





10 A C



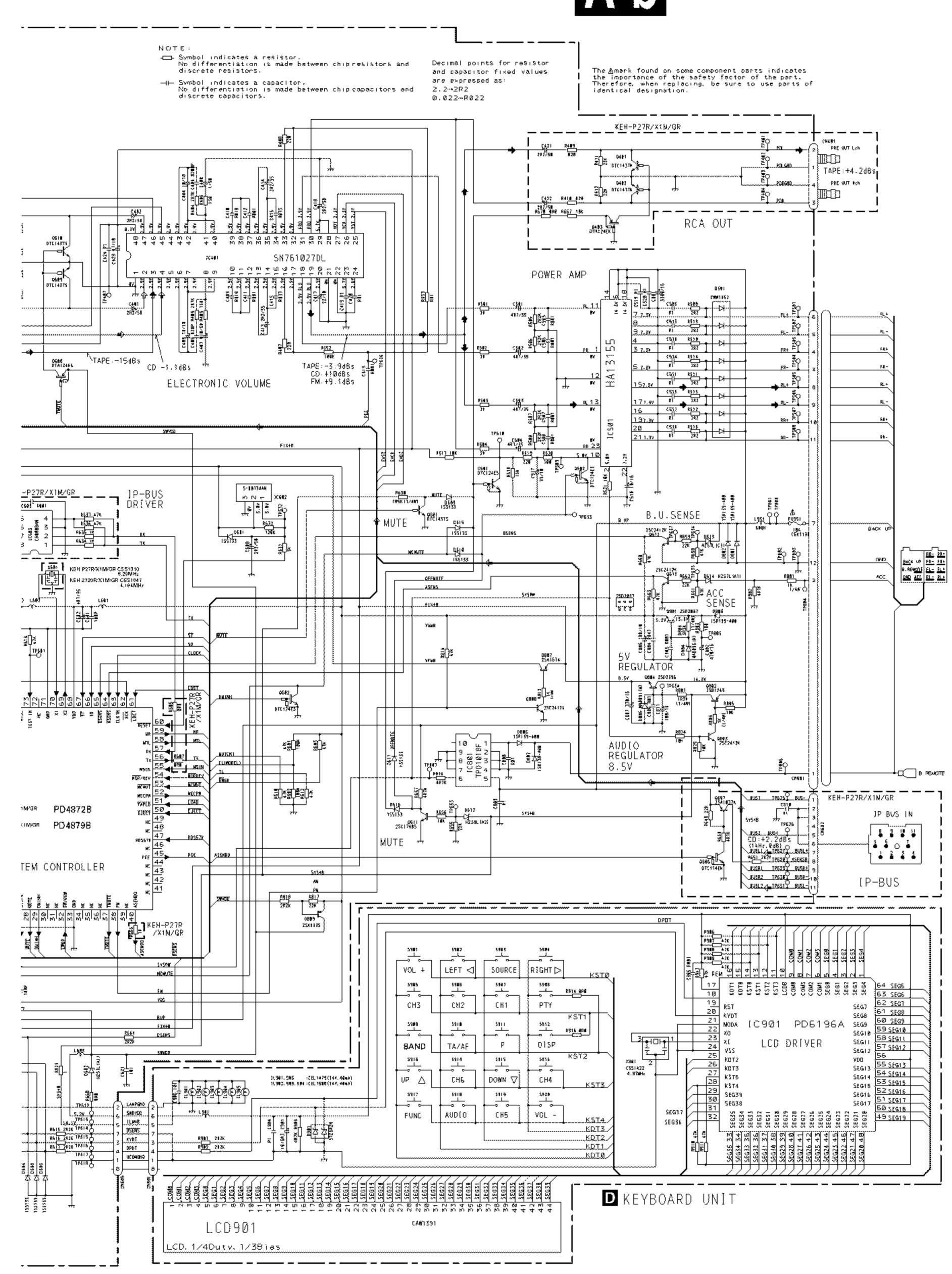


Fig. 4

AD

5

6

KEH 3TI)MT MAB@@@AD CSB4 180P R639 100 ะรักฮ **≅** 00 TAPER 🛧 🗘 😭 🛊 ATOR TA2050S 180L -BUS 834**0** 47K \$153 2BEK 8220 47K 8228 4R7K (2.0V) AMOU 8.3V AMTV 080 6230 2.2V HSFM 25 NL8+ 61EN | 8318 888 E{E3 282K 6308 V2.88+M∃ 1⊊ B354

13 100+B B1EN -15 2EEK 413A -11€ VW21

V£12 G8MH

VBLE 9M00

 $\mathbf{\alpha}$

Assesur.

8502 287X 8501 267X

K323 ERBK C334 22/6R3 C335 801

A-b

₩ S

Α

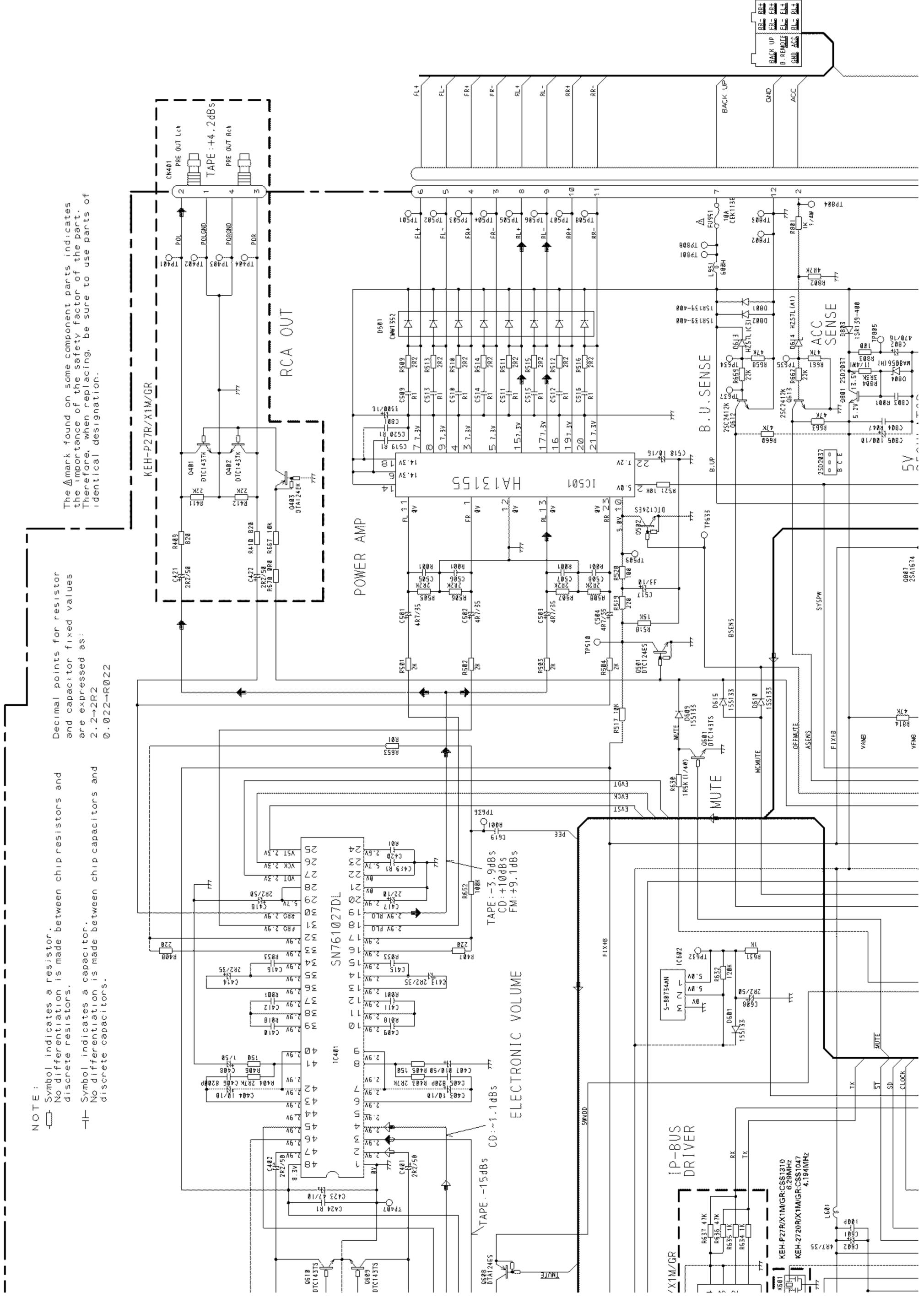
В

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6

A-a

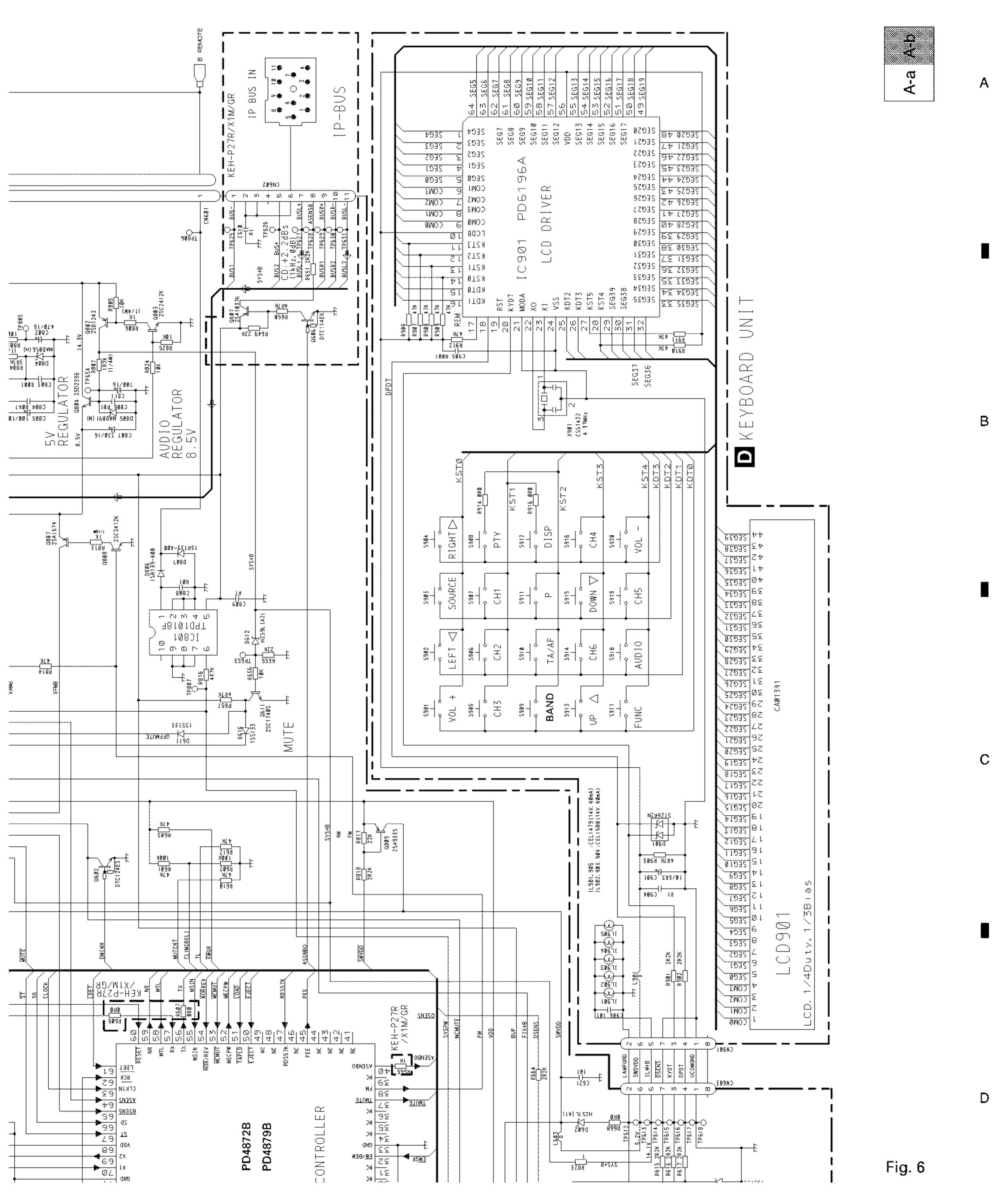


A-b

2

3

4



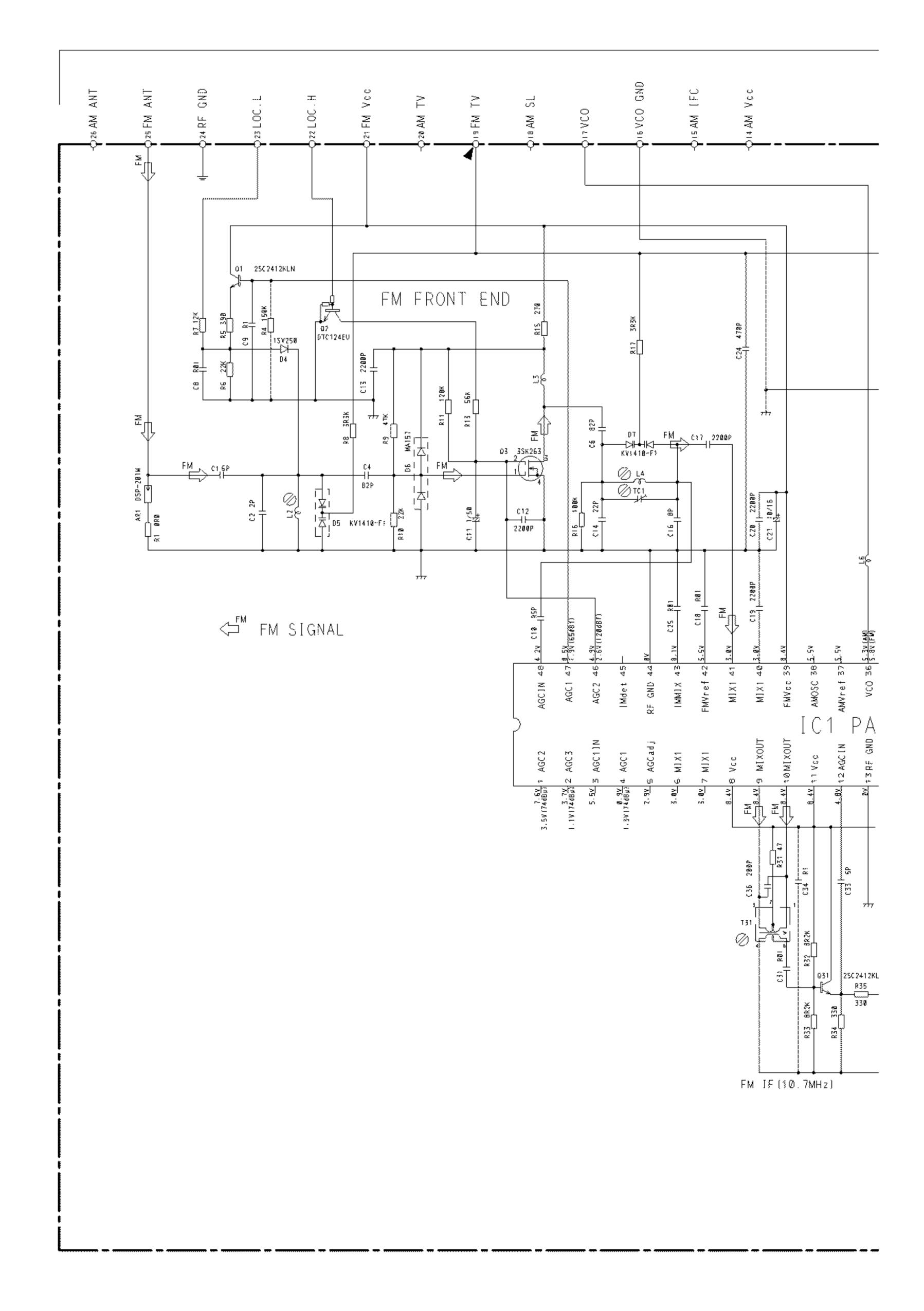
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5

A-0 D
15

3.2 FM/AM TUNER UNIT

S FM/AM TUNER UNIT



B

2

4

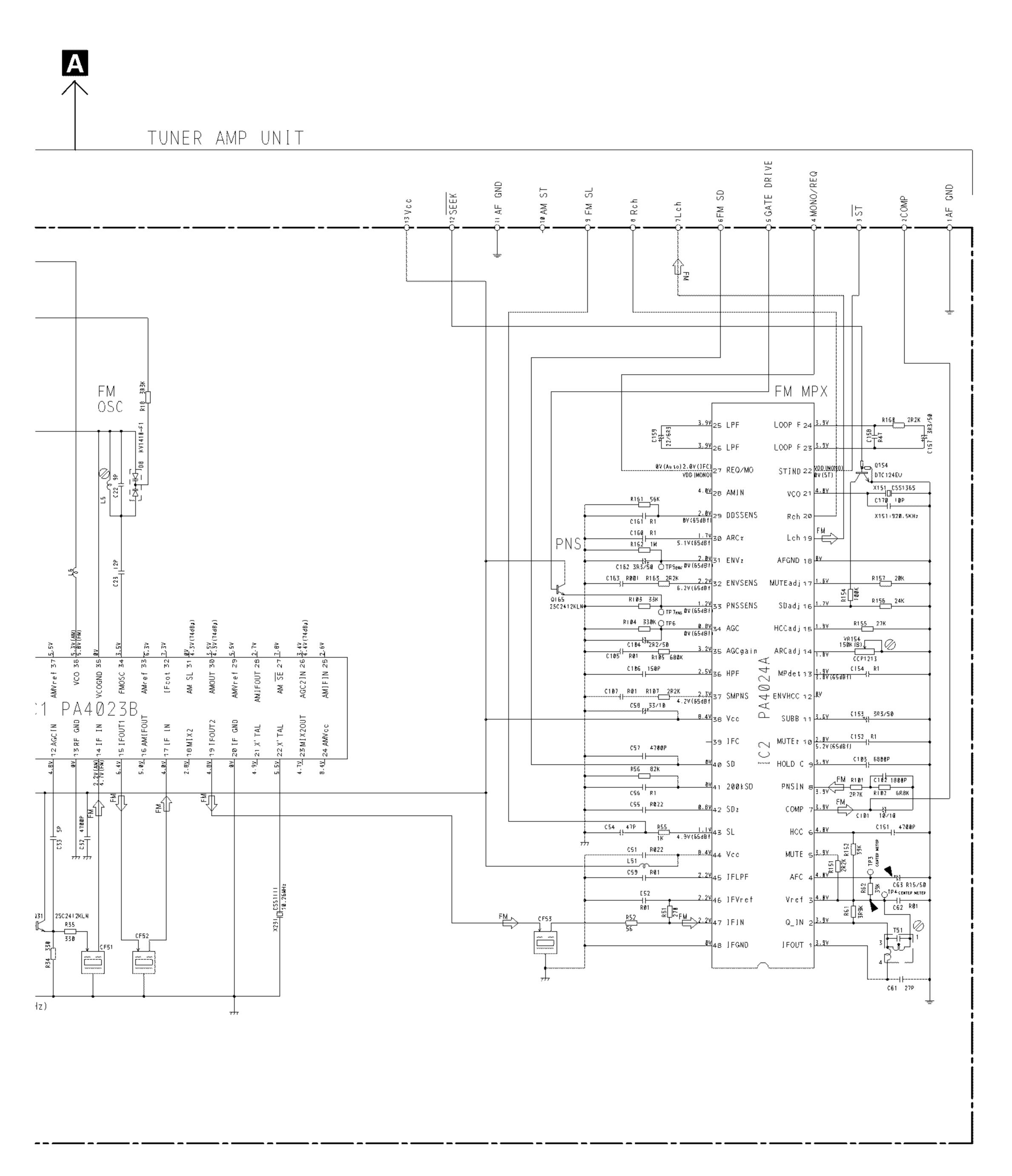


Fig. 7

D

3 17

5

Q611

Q6Ø2

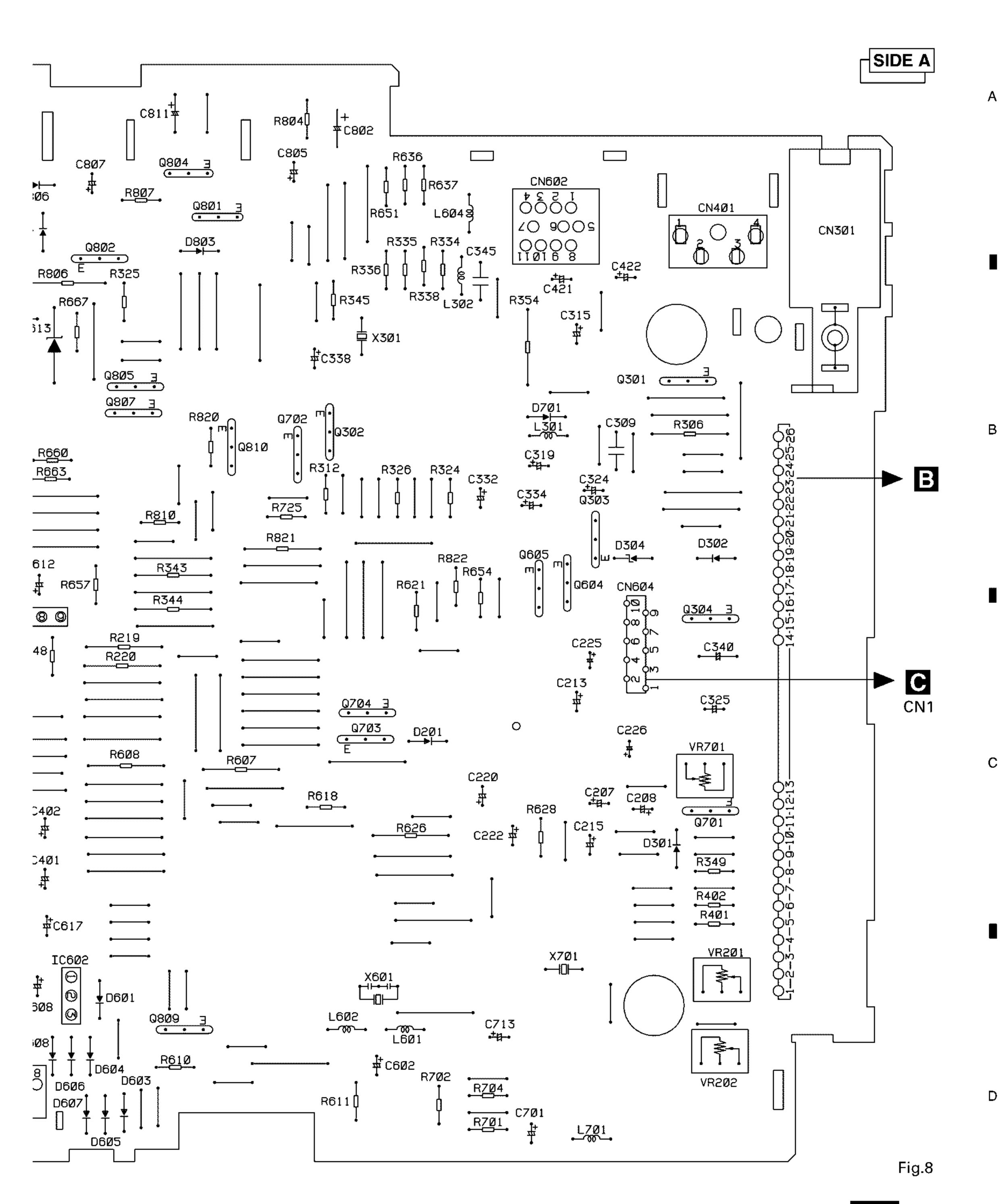
D616

3

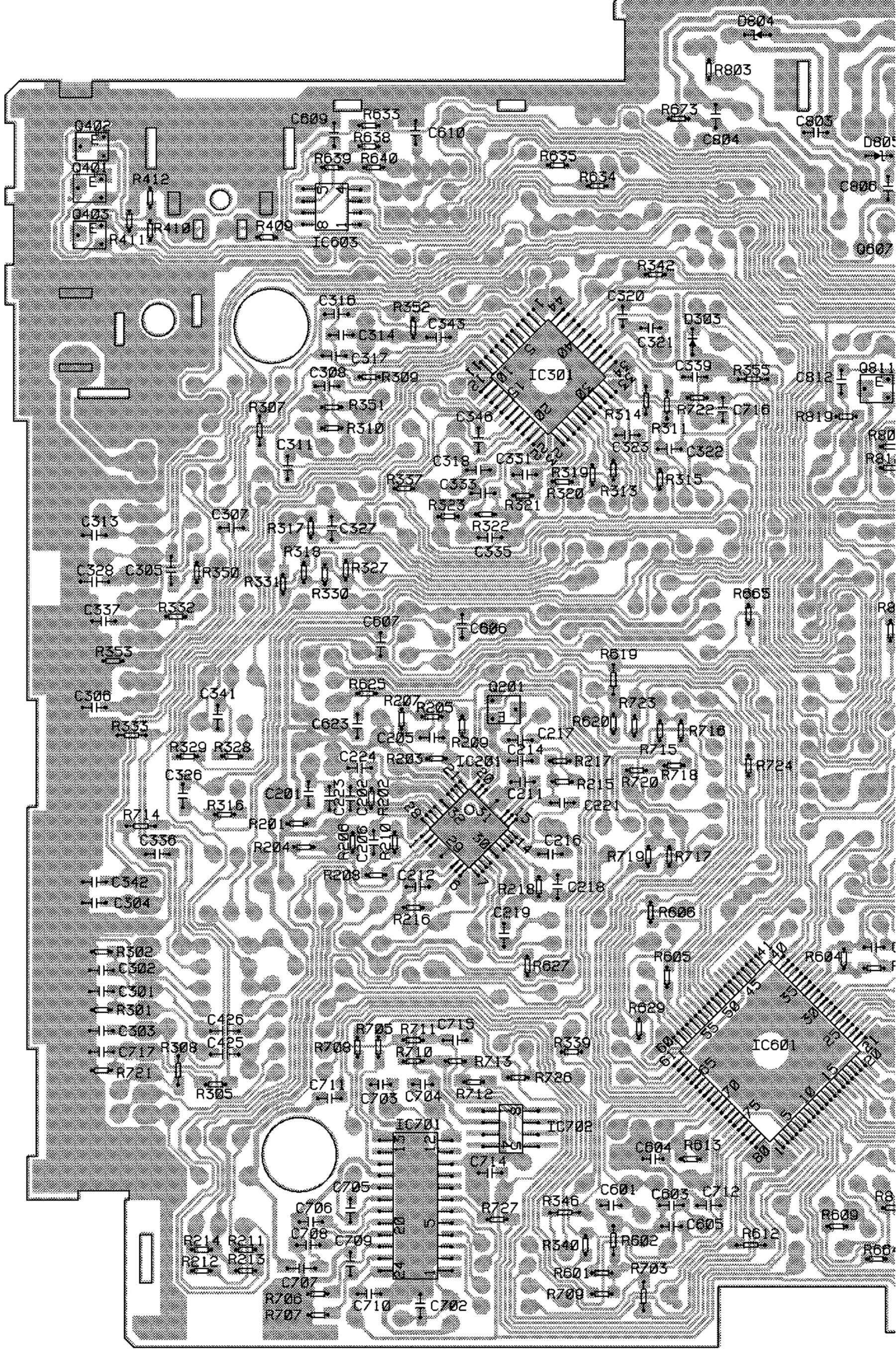
CN901

Q6Ø1

Q6Ø3

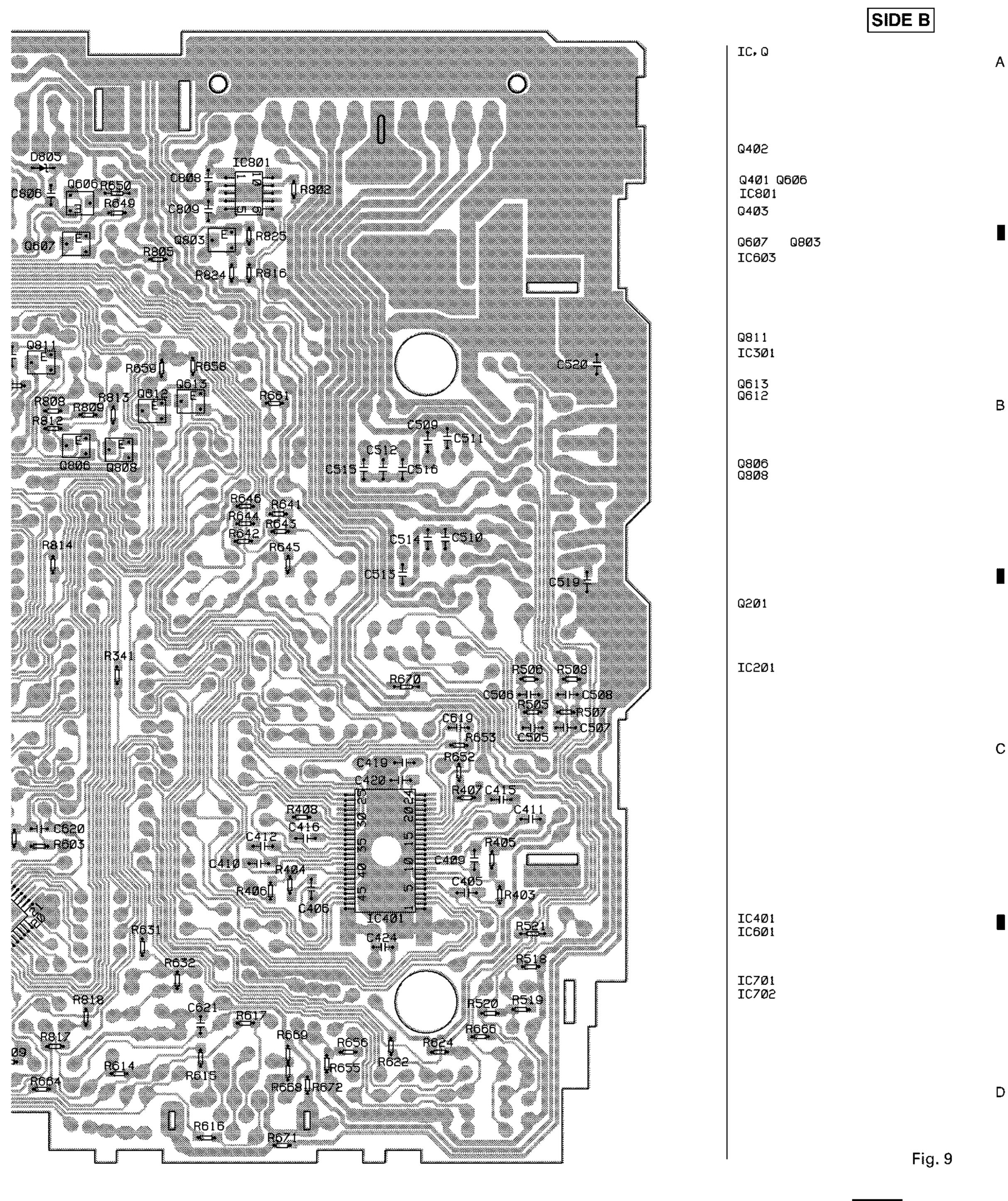


TUNER AMP UNIT



A

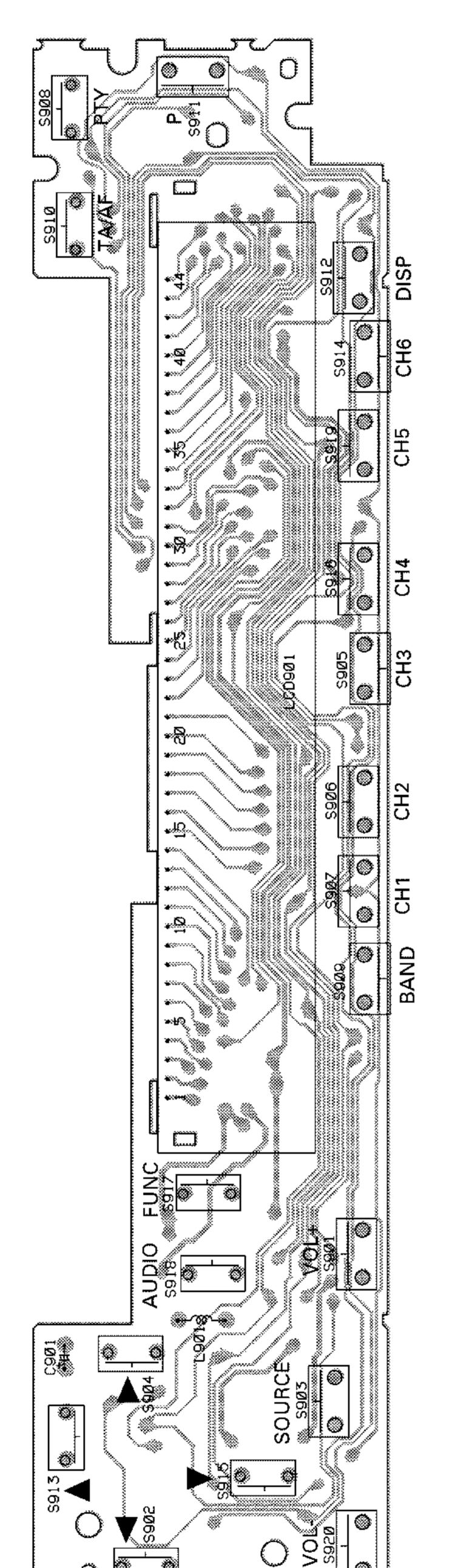
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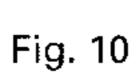


A

4.2 KEYBOARD UNIT KEYBOARD UNIT

SIDE A





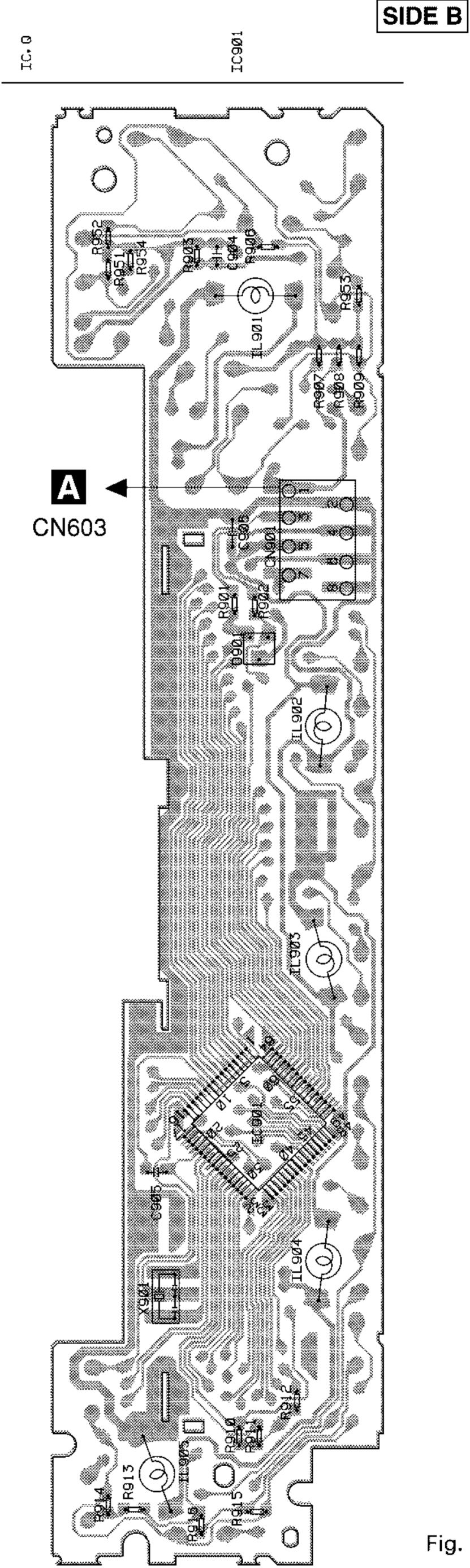


Fig. 11

3

4.3 CASSETTE PCB

CASSETTE PCB

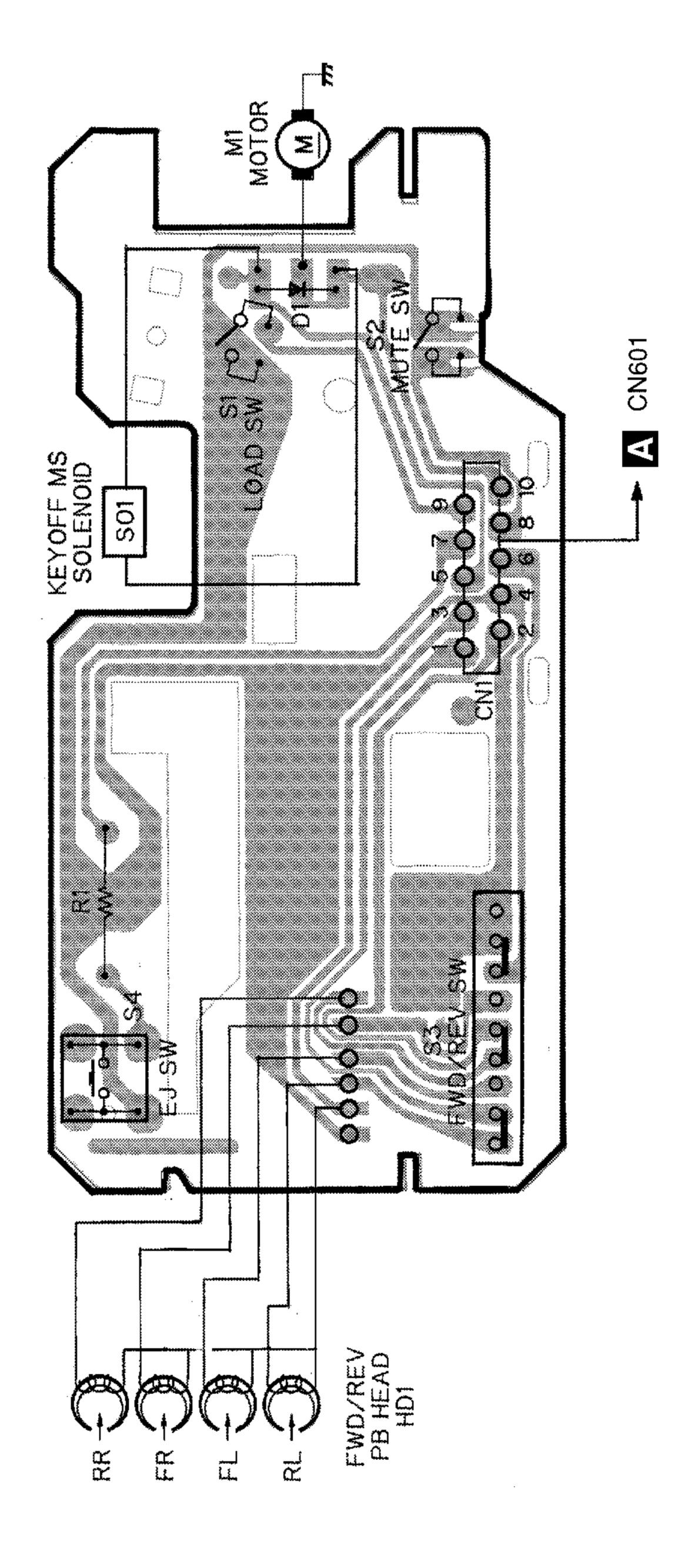


Fig. 12

В



2

SIDE A

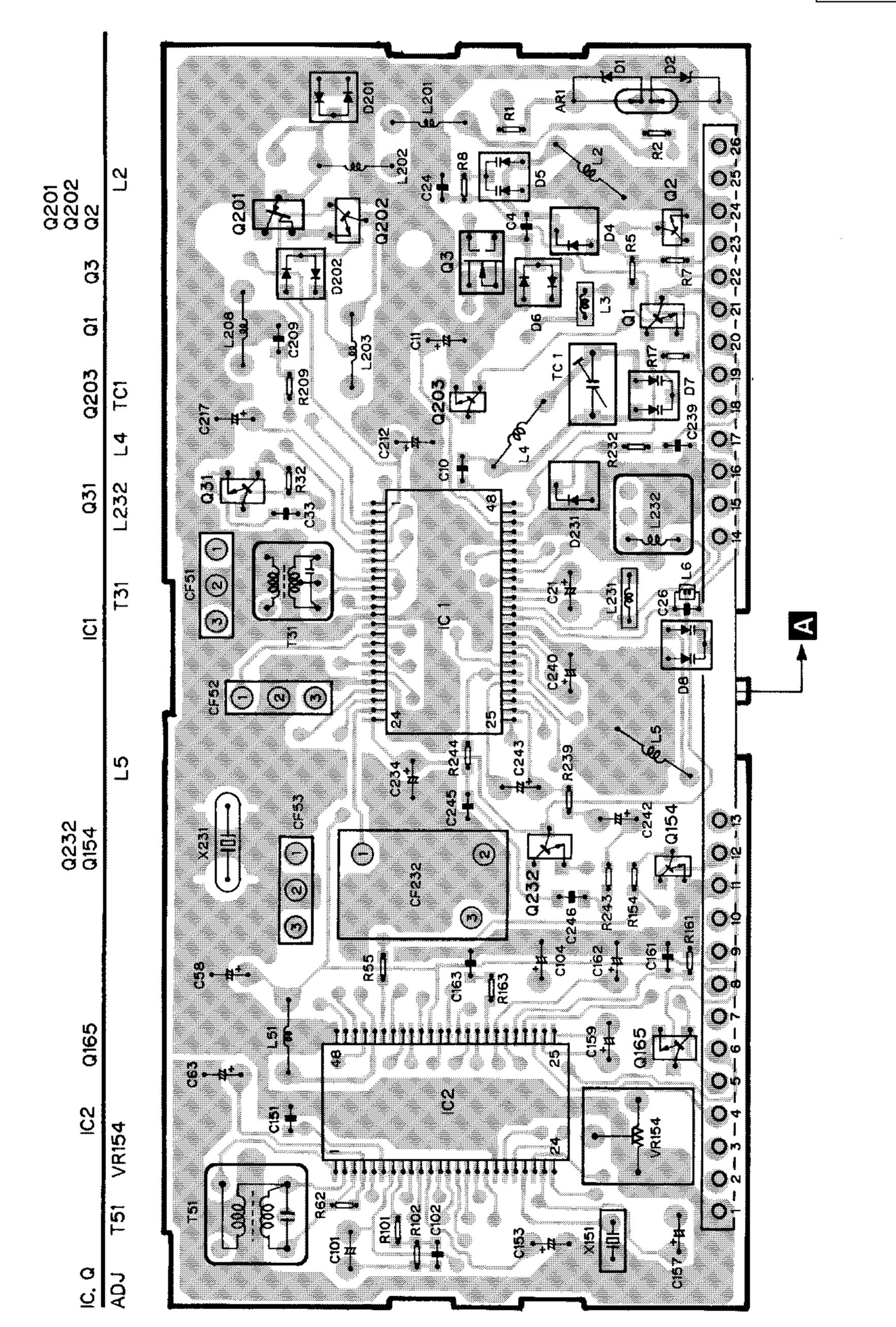


Fig. 13

2

4

FM/AM TUNER UNIT

SIDE B

В

С

Fig. 14

2

5. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOJ,RS1/OOSOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

===	==Circui	it Symbol and No.===Part Name	Part No.	====	==Circuit	t Symbol and No.===Part Name	Part No.
A	Unit N	Number : CWM5518(KEH-P27R/X1	M/GR)	D	602	Diode	HZS7L(A1)
	Unit I	Number : CWM5522(KEH-2720R/X	1M/GR)	D	603	Diode	1SS270
	💹 Unit N	Name : Tuner Amp Unit		D	604	Diode	1SS270
		·		D	605	Diode	1SS270
MIS	CELLAN	IEOUS		D	606	Diode	1SS270
IC	201	IC	HA12197F	D	607	Diode	1SS270
IC	301	IC	PM2007A	D	608	Diode	1SS270
IC	401	IC	SN761027DL	D	609	Diode	1SS270
IC	501	IC	HA13155	D	610	Diode	1SS270
IC	601	IC(KEH-P27R/X1M/GR)	PD4872B	D	611	Diode	1SS270
IC	601	IC(KEH-2720R/X1M/GR)	PD4879B	D	612	Diode	HZS9L(A2)
IC	602	IC	S-80734AN	D	613	Diode	HZS7L(C3)
IC	603	IC(KEH-P27R/X1M/GR)	CA0008AM	D	614	Diode	HZS7L(A1)
ič	604	IC(KEH-P27R/X1M/GR)	TA2050S	Ď	615	Diode	1SS270
ič	701	IC	PM4006B	Ď	616	Diode	1SS270
IC	702	IC	NJM2903M	D	701	Diode	1SS270
iČ	801	ic	TPD1018F	Ď	801	Diode	1SR139-400
ã	301	Transistor	2SC1740S	Ď	802	Diode	1SR139-400
Q.	401	Transistor(KEH-P27R/X1M/GR)	DTC143TK	Ď	803	Diode	1SR139-400
ã	402	Transistor(KEH-P27R/X1M/GR)	DTC143TK	Ď	804	Diode	MA8056(H)
Q	403	Transistor(KEH-P27R/X1M/GR)	DTA124EK	D	805	Diode	MA8091(M)
ã	501	Transistor	DTC124ES	Ď	806	Diode	1SR139-400
ã	502	Transistor	DTC124ES	Ď	807	Diode	1SR139-400
ã	601	Transistor	DTC143TS	ĭ	301	Ferri-Inductor	LAU101K
ã	602	Transistor	DTC124ES	Ĺ	302	Ferri-Inductor	LAU101K
Q	603	Transistor	2SC1740S	ı	601	Ferri-Inductor	LAU101K
ã	606	Transistor(KEH-P27R/X1M/GR)	DTC114EK	Ī	602	Ferri-Inductor	LAU101K
ã	607	Transistor(KEH-P27R/X1M/GR)	2SA1037K	ī	603	Ferri-Inductor	LAU101K
ã	608	Transistor	DTA124ES	Ī	604	Ferri-Inductor(KEH-P27R/X1M/GR)	LAU2R2K
ã	609	Transistor	DTC143TS	ī	701	Ferri-Inductor	LAU101K
· ·	005	11411313101		L	701		
Q	610	Transistor	DTC143TS	L	951	Choke Coil 600H	CTH1168
Q.	611	Transistor	2SC1740S	Х	301	Crystal Resonator 7.200MHz	CSS1379
Q	612	Transistor	2SC2412K	Х	601	Ceramic Resonator 6.29MHz	CSS1310
Q	613	Transistor	2SC2412K			(KEH-P27R/X1M/GR)	
Q	701	Transistor	DTC143TS	Х	601	Ceramic Resonator 4.194MHz (KEH-2720R/X1M/GR)	CSS1047
Q	702	Transistor	2SC1740S			1-1-1 1-2-47 (1-1-1) - 1-1)	
ã	703	Transistor	2SD1468S	Χ	701	Crystal Resonator 4.332MHz	CSS1056
ã	704	Transistor	2SD1468S	ŶR	701	Semi-fixed $22k\Omega(B)$	CCP1321
ā	801	Transistor	2SD2037	FU	951	Fuse 10A	CEK1136
Q.	802	Transistor	2SB1243		001	1 400 1071	OLIVITOO
				RES	ISTORS		
Q	803	Transistor	2SC2412K	***			
ā	804	Transistor	2SD2396	R	201		RS1/10S473J
Q	807	Transistor	2SA1674	R	202		RS1/10S473J
Q	808	Transistor	2SC2412K	R	203		RS1/10S181J
Q	809	Transistor	2SA933S	R R	204 205		RS1/10S181J RS1/10S274J
Q	810	Transistor	2SB1242	11	200		113 1/1032/43
Q	811	Transistor	DTC143TK	R	206		RS1/10S274J
D	201	Diode	1SS270	R	207		RS1/10S133J
D	501	Compound Parts	CWW1352	R	208		RS1/10S133J
D	601	Diode	1SS270	R	209		RS1/10S183J
				R	210		RS1/10S183J

====Cir	cuit Symbol and No.===Part Name	Part No.	===	==Circu	it Symbol and No.===Part Name	Part No.
R 211 R 212 R 213 R 214 R 219		RS1/10S472J RS1/10S472J RS1/10S512J RS1/10S512J RD1/4PU273J	R R R R	510 511 512 513 514		RD1/4PU2R2J RD1/4PU2R2J RD1/4PU2R2J RD1/4PU2R2J RD1/4PU2R2J
R 220 R 301 R 302 R 305 R 306		RD1/4PU273J RS1/10S272J RS1/10S272J RS1/10S0R0J RD1/4PU222J	R R R R	515 516 517 518 519		RD1/4PU2R2J RD1/4PU2R2J RD1/4PU103J RS1/10S153J RS1/10S221J
R 307 R 308 R 310 R 311 R 312		RS1/8S222J RS1/8S222J RS1/10S0R0J RS1/8S272J RD1/4PU222J	R R R R	520 521 601 602 603		RS1/10S101J RS1/8S103J RS1/10S104J RS1/8S104J RS1/10S473J
R 314 R 315 R 318 R 319 R 320		RS1/8S0R0J RS1/10S0R0J RS1/10S0R0J RS1/10S472J RS1/10S682J	R R R R	605 607 610 612 613	(KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR)	RS1/10S0R0J RD1/4PU0R0J RD1/4PU473J RS1/8S473J RS1/10S473J
R 321 R 322 R 323 R 324 R 326		RS1/10S222J RS1/10S472J RS1/10S682J RD1/4PU102J RD1/4PU0R0J	R R R R	614 615 616 617 618		RS1/10S473J RS1/10S222J RS1/10S222J RS1/10S222J RD1/4PU103J
R 328 R 333 R 334 R 335 R 336		RS1/10S561J RS1/8S393J RD1/4PU562J RD1/4PU472J RD1/4PU473J	R R R R	619 620 621 622 623		RS1/8S473J RS1/10S473J RD1/4PU104J RS1/10S473J RD1/4PU473J
R 337 R 338 R 339 R 340 R 341		RS1/10S473J RD1/4PU104J RS1/10S473J RS1/10S473J RS1/10S681J	R R R R	624 625 629 630 631		RS1/10S332J RS1/10S102J RS1/10S103J RD1/4PU152J RS1/10S102J
R 342 R 343 R 344 R 345 R 346		RS1/10S681J RD1/4PU681J RD1/4PU681J RD1/4PU222J RS1/8S472J	R R R R	632 633 634 635 636	(KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR)	RS1/10S124J RS1/10S102J RS1/10S102J RS1/10S102J RD1/4PU473J
R 349 R 350 R 352 R 353 R 354		RD1/4PU102J RS1/10S510J RS1/10S0R0J RS1/10S0R0J RD1/4PU102J	R R R R	637 638 639 640 641	(KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR)	RD1/4PU473J RS1/10S101J RS1/10S101J RS1/10S620J RS1/10S181J
R 355 R 403 R 404 R 405 R 406		RS1/8S0R0J RS1/10S272J RS1/10S272J RS1/10S151J RS1/10S151J	R R R R	642 643 644 645 646	(KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR)	RS1/10S181J RS1/10S223J RS1/10S223J RS1/10S102J RS1/10S102J
R 407 R 408 R 409 R 410 R 411	(KEH-P27R/X1M/GR)	RS1/10S221J RS1/10S221J RS1/10S821J RS1/10S821J RS1/10S223J	R R R R	647 648 649 650 651	(KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR)	RD1/4PU223J RD1/4PU223J RS1/10S223J RS1/8S472J RD1/4PU222J
R 412 R 501 R 502 R 503 R 504		RS1/10S223J RD1/4PU202J RD1/4PU202J RD1/4PU202J RD1/4PU202J	R R R R	652 653 655 656 657		RS1/10S104J RS1/10S104J RS1/10S223J RS1/10S103J RD1/4PU472J
R 505 R 506 R 507 R 508 R 509		RS1/10S222J RS1/10S222J RS1/10S222J RS1/10S222J RD1/4PU2R2J	R R R R	658 659 660 661 662		RS1/10S473J RS1/10S223J RD1/4PU473J RS1/10S473J RD1/4PU223J

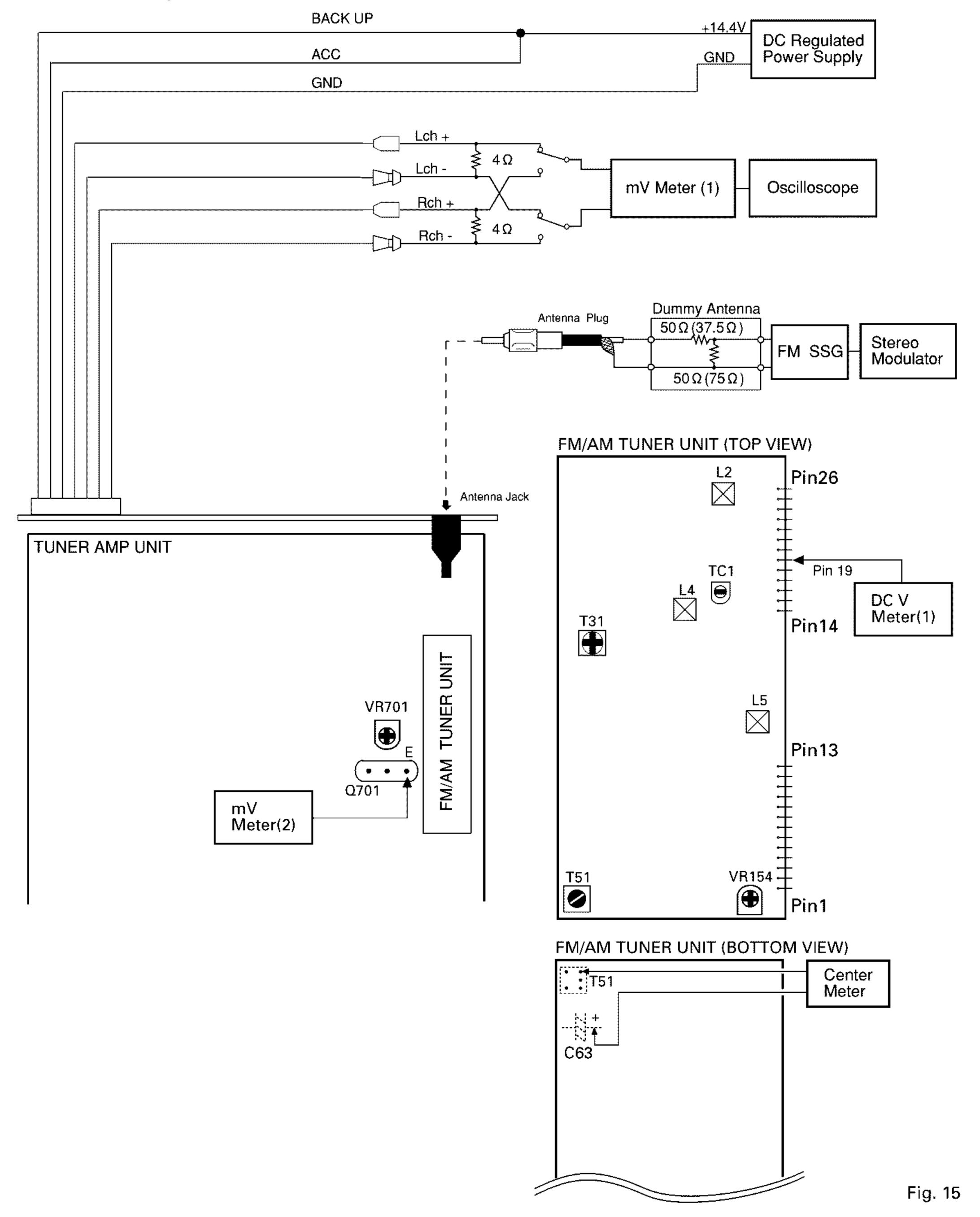
===	==Circu	it Symbol and No.===Part Name	Part No.	===	==Circu	it Symbol and No.===Part Name	Part No.
R R R R	663 664 665 667 668	(KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR)	RD1/4PU473J RS1/10S222J RS1/10S102J RD1/4PU103J RS1/10S0R0J	00000	220 223 224 225 226		CEAL100M16 CKSQYB105K10 CKSQYB105K10 CEAL470M6R3 CEAL470M6R3
R R R R	670 673 701 702 703	(KEH-P27R/X1M/GR)	RS1/8S0R0J RS1/10S0R0J RD1/4PU102J RD1/4PU102J RS1/8S102J	00000	301 302 303 308 311		CKSQYB223K25 CKSQYB223K25 CKSQYB223K25 CCSQCH101K50 CCSQCH101K50
R R R R	704 705 706 707 708		RD1/4PU102J RS1/10S102J RS1/10S0R0J RS1/10S333J RS1/10S102J	00000	313 314 315 316 318		CKSQYB223K25 CKSQYB103K25 CEAL220M6R3 CKSQYB103K25 CKSQYB102K50
R R R R	709 710 711 712 713		RS1/10S562J RS1/10S222J RS1/10S222J RS1/10S562J RS1/10S684J	00000	319 320 321 322 331		CEAL220M16 CCSQCH150J50 CCSQCH150J50 CKSQYB103K25 CKSQYB104K16
R R R R	714 715 716 717 718		RS1/8S103J RS1/10S224J RS1/10S224J RS1/10S222J RS1/10S222J	00000	332 333 334 335 336		CEAL220M6R3 CKSQYB103K25 CEAL220M6R3 CKSQYB103K25 CKSQYB223K25
R R R R	719 720 721 722 723		RS1/10S223J RS1/10S223J RS1/10S105J RS1/10S224J RS1/10S562J	00000	340 341 342 343 401	4.7μF/16V	CCH1165 CKSQYB103K25 CKSQYB473K16 CKSQYB102K50 CEJA2R2M50
R R R R	724 725 726 727 801		RS1/10S681J RD1/4PU681J RS1/10S681J RS1/10S102J RD1/4PU102J	CCCCC	402 403 404 405 406		CEJA2R2M50 CEJA100M16 CEJA100M16 CKSQYB822K50 CKSQYB822K50
R R R R	802 803 804 805 806		RS1/10S472J RS1/10S101J RD1/4PU332J RS1/10S103J RD1/4PU102J	CCCCC	407 408 409 410 411		CEJA1R0M50 CEJA1R0M50 CKSQYB183K25 CKSQYB183K25 CKSQYB102K50
R R R R	807 812 813 814 816		RD1/4PU122J RS1/10S103J RS1/10S102J RS1/10S473J RS1/10S472J	00000	412 413 414 415 416		CKSQYB102K50 CEJA2R2M50 CEJA2R2M50 CKSQYB333K25 CKSQYB333K25
R R R R	817 818 819 820 821		RS1/10S223J RS1/10S222J RS1/10S472J RD1/4PU102J RD1/4PU1R5J	00000	417 418 419 420 421	(KEH-P27R/X1M/GR)	CEJA220M6R3 CEJA2R2M50 CKSQYB104K16 CKSQYB103K25 CEJA2R2M50
R R R	822 823 824 825		RD1/4PU1R5J RD1/4PU1R0J RS1/10S103J RS1/10S103J	00000	422 423 424 425 426	(KEH-P27R/X1M/GR)	CEJA2R2M50 CEJA470M10 CKSQYB104K16 CKSYB105K16 CKSYB105K16
CA	PACITOI 201	no	CKSQYB561K50	C	501 502		CEJA4R7M35 CEJA4R7M35
0000	202 205 206 207		CKSQYB561K50 CKSQYB103K25 CKSQYB103K25 CEALR47M50	C C	503 504 505		CEJA4R7M35 CEJA4R7M35 CKSQYB102K50
CCCCC	208 209 210 213 219		CEALR47M50 CEJA1R0M50 CEJA1R0M50 CEAL220M16 CKSQYB104K16	00000	506 507 508 509 510		CKSQYB102K50 CKSQYB102K50 CKSQYB104K16 CKSQYB104K16

=====	Circuit Symbol and No.===Part Name	Part No.	====Circuit Symbol and No.===Part Name	Part No.
C 5 C 5	511 512 513 514 515	CKSQYB104K16 CKSQYB104K16 CKSQYB104K16 CKSQYB104K16 CKSQYB104K16	S 902 Switch S 903 Push Switch S 904 Switch S 905 Push Switch S 906 Push Switch	CSG1081 CSG1093 CSG1081 CSG1093 CSG1093
C 5 C 5	516 517 518 519 520	CKSQYB104K16 CEJA330M10 CEJA100M16 CKSQYB104K16 CKSQYB104K16	S 907 Push Switch S 908 Switch S 909 Push Switch S 910 Switch S 911 Push Switch	CSG1093 CSG1081 CSG1093 CSG1081 CSG1093
C 6 C 6	501 502 504 506 507	CCSQCH101K50 CEAL4R7M35 CCSQCH101K50 CKSQYB104K16 CKSQYB224K16	S 912 Push Switch S 913 Switch S 914 Push Switch S 915 Switch S 916	CSG1093 CSG1081 CSG1093 CSG1081 CSG1093
C 6 C 6	608 609 (KEH-P27R/X1M/GR) 610 (KEH-P27R/X1M/GR) 611 (KEH-P27R/X1M/GR) 612 (KEH-P27R/X1M/GR)	CEJA2R2M50 CKSQYB102K50 CKSQYB104K16 CEJA1R0M50 CEJA1R0M50	S 917 Switch S 918 Switch S 919 Push Switch S 920 Push Switch IL 901 Lamp 14V 40mA	CSG1081 CSG1081 CSG1093 CSG1093 CEL1479
C 6 C 6	(KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR) (KEH-P27R/X1M/GR)	CEJA1R0M50 CEJA1R0M50 CEJA100M16 CEJA4R7M35	IL 902 Lamp 14V 40mA IL 903 Lamp 14V 40mA IL 904 Lamp 14V 40mA IL 905 Lamp 14V 40mA LCD 901 LCD	CEL1508 CEL1508 CEL1508 CEL1479 CAW1391
C 6 C 6	18 (KEH-P27R/X1M/GR) 19 20 21 23	CEJA4R7M35 CKSQYB102K50 CCSQCH101K50 CCSQCH101J50 CKSQYB102K50	RESISTORS R 901 R 902 R 903	RS1/10S222J RS1/10S222J RS1/10S472J
C 7 C 7	701 702 703 704 705	CEAL4R7M35 CKSQYB104K16 CCSQCH220J50 CCSQCH220J50 CKSQYB472K50	R 906 R 907 R 908 R 909	RS1/10S473J RS1/10S473J RS1/10S473J RS1/10S473J
C 7 C 7 C 7	706 707 708 709 710	CKSQYB104K16 CKSYB105K16 CKSQYB104K16 CKSQYB222K50 CKSQYB104K16	R 910 R 911 R 912 R 914 R 916	R\$1/10\$473J R\$1/10\$473J R\$1/10\$473J R\$1/10\$0R0J R\$1/10\$0R0J
C 7 C 7 C 7	111 112 113 114 115	CKSQYB104K16 CKSQYB223K25 CEAL4R7M35 CKSQYB103K25 CKSQYB103K25	CAPACITORS C 901 C 904 C 905 C 906	CEAL100M16 CKSQYB104K50 CKSQYB102K50 CCSCH101J50
C 7 C 8 C 8	/16 /17 801 3300μF/16V 802 470μF/16V 803	CKSQYB223K25 CKSQYB471K50 CCH1018 CCH1183 CKSQYB102K50	Unit Number : Cassette PCB	
C 8 C 8	804 805 806 807 330μF/10V 808	CKSQYB473K16 CEJA101M10 CKSQYB103K25 CCH1181 CKSQYB103K25	S 1 Switch(Load) S 2 Switch(Mute) S 3 Switch(FWD/REV) S 4 Switch(Eject) R 1	ESN1016 ESN1017 ESH1006 ESG1006 RD1/4HM472J
	809 811 100μF/16V	CKSQYB104K16 CCH1179	Miscellaneous Parts List	EN/ A 4 4 0 7
	Unit Number : CWM5527(KEH-P27R/X Unit Number : CWM5531(KEH-2720R/X Unit Name : Keyboard Unit ELLANEOUS		M 1 Motor Unit HD 1 Head Assy Unit Number : CWE1470 Unit Name : FM/AM Tuner Unit	EXA1467 EXA1466
IC 9 D 9 L 9 X 9	101 IC 101 Diode 101 Ferri-Inductor 101 Ceramic Resonator 4.970MHz 101 Push Switch	PD6196A STZ6R2N LAU101K CSS1422 CSG1093	MISCELLANEOUS IC 1 IC IC 2 IC Q 1 Transistor Q 2 Transistor Q 3 FET	PA4023B PA4024A 2SC2412KLN DTC124EU 3SK263

=====(Circui	it Symbol and No.===Part Name	Part No.	=====Circuit Symbol and No.===Part Na	me Part No.
Q 1 Q 1	31 154 165	Transistor Transistor Transistor	2SC2412KLN DTC124EU 2SC2412KLN	R 163 CAPACITORS	RS1/16S222J
D D D	4 5 6 7	Diode Diode Diode Diode	1SV250 KV1410-F1 MA157 KV1410-F1	C 1 C 2 C 4 C 6	CCSQCH6R0D50 CCSRCK2R0C50 CCSRCH820J50 CCSRCH820J50
D L L	8 2 3	Diode Coil Inductor	KV1410-F1 CTC1133 LCTB2R2K2125	C 8	CKSRYB103K25 CKSQYB104K16
L L L	4 5 6 51	Coil Coil Inductor Ferri-Inductor	CTC1133 CTC1132 LCTBR15K1608 LAU150K	C 10 C 11 C 12 C 13	CCSRCKR50C50 CEJA1R0M50 CKSRYB222K50 CKSRYB222K50
T	31 51	Coil	CTC1136	C 14 C 16 C 17	CCSRCH220J50 CCSRCH8R0D50 CKSRYB222K50 CKSRYB103K25
CF	51 52 53	Trimmer Ceramic Filter Ceramic Filter Ceramic Filter	CCL1046 CTF1292 CTF1292 CTF1292	C 18 C 19 C 20	CKSRYB103K25 CKSRYB222K50 CKSRYB222K50
X 1 X 2	151 231 154 1	Resonator 920.5kHz Crystal Resonator 10.26MHz Semi-fixed 150kΩ(B) Capacitor with Discharge Gap	CSS1365 CSS1111 CCP1213 DSP-201M	C 21 C 22 C 23 C 24	CEJA100M16 CCSRTH9R0D50 CCSRTH120J50 CCSRCH471J50
RESIST	TORS			C 25 C 31 C 32	CKSRYB103K25 CKSRYB103K25 CKSQYB472K50
R R R R	1 4 5 6		RS1/16S0R0J RS1/16S154J RS1/16S391J RS1/16S223J	C 33 C 34 C 36	CCSRCH5R0C50 CKSQYB104K16 CCSRRH201J50
R R R	7 8		RS1/16S123J RS1/16S332J RS1/16S473J	C 51 C 52 C 54 C 55	CKSRYB223K25 CKSRYB103K25 CCSRCH470J50 CKSQYB223K25
R R	10 11 13		RS1/16S4733 RS1/16S223J RS1/16S124J RS1/16S563J	C 56 C 57	CKSQYB104K16 CKSRYB472K50
R R	15 16 17		RS1/16S271J RS1/16S104J RS1/16S332J	C 58 C 59 C 61	CEJA330M10 CKSRYB103K25 CCSRCH270J50
R :	18 31 32		RS1/16S332J RS1/16S470J RS1/16S822J	C 62 C 63 C 101 C 102	CKSRYB103K25 CEJAR15M50 CEJANP100M10 CKSRYB182K50
R R	33 34 35 51		RS1/16S822J RS1/16S331J RS1/16S331J RS1/16S271J	C 103 C 104 C 105	CKSRYB682K25 CEJA2R2M50 CKSRYB103K25
R R	52 55 56		RS1/16S560J RS1/16S102J RS1/16S823J	C 106 C 107 C 151	CCSRCH151J50 CKSRYB103K25 CKSRYB472K50
R R 1	61 62 101 102		RS1/16S392J RS1/16S393J RS1/16S272J RS1/16S682J	C 152 C 153 C 154 C 157 C 158	CKSQYB104K16 CEJA3R3M50 CKSQYB104K16 CEJA3R3M50 CKSYB474K16
R 1	103 104 105		RS1/16S333J RS1/16S334J RS1/16S683J	C 150 C 159 C 160 C 161	CEJA220M6R3 CKSQYB104K16 CKSQYB104K16
R 1 R 1 R 1	107 151 152 154 155		RS1/16S222J RS1/16S222J RS1/16S393J RS1/16S104J RS1/16S273J	C 161 C 162 C 163 C 170	CEJA3R3M50 CKSRYB102K50 CCSRCH100D50
R 1 R 1 R 1 R 1	156 157 160 161 162		RS1/16S243J RS1/16S203J RS1/16S222J RS1/16S563J RS1/16S105J		

6. ADJUSTMENT

Connection Diagram



FM ADJUSTMENT

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.) or 400Hz 100%(75kHz Dev.)

S:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

FM ADJUSTMENT

		FM S	SG	Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	•••••	****	107.9	L5	DC V Meter(1): 6V
IF	2	98.1 M	60	98.1	T51	Center Meter: 0
ANT Coil	3	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	4	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
lmage	5	129.3 M	60-80	107.9	TC1	mV Meter(1) : Maximum
IFT	6	98.1 M	5	98.1	T31	mV Meter(1) : Maximum
						(STEREO MODE)
ARC	7	98.1 S	40	98.1	VR154	mV Meter(1) : Separation 5dB
						(STEREO MODE)

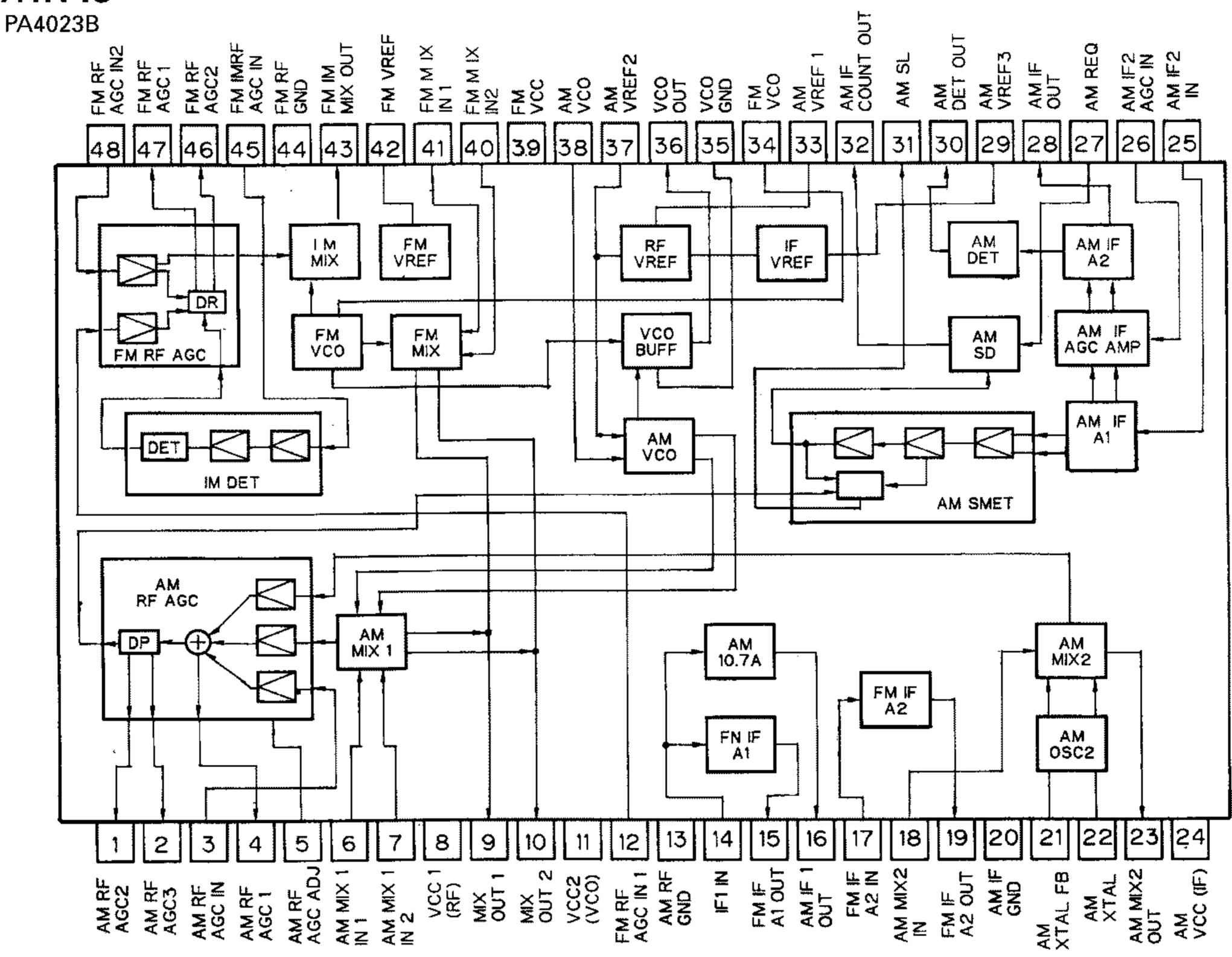
RDS SL ADJUSTMENT

		FM S	SG	Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
	1	104.0 S2	35	104.0	VR701	DC V Meter(2): 1.75V+0.05V, -0.35V

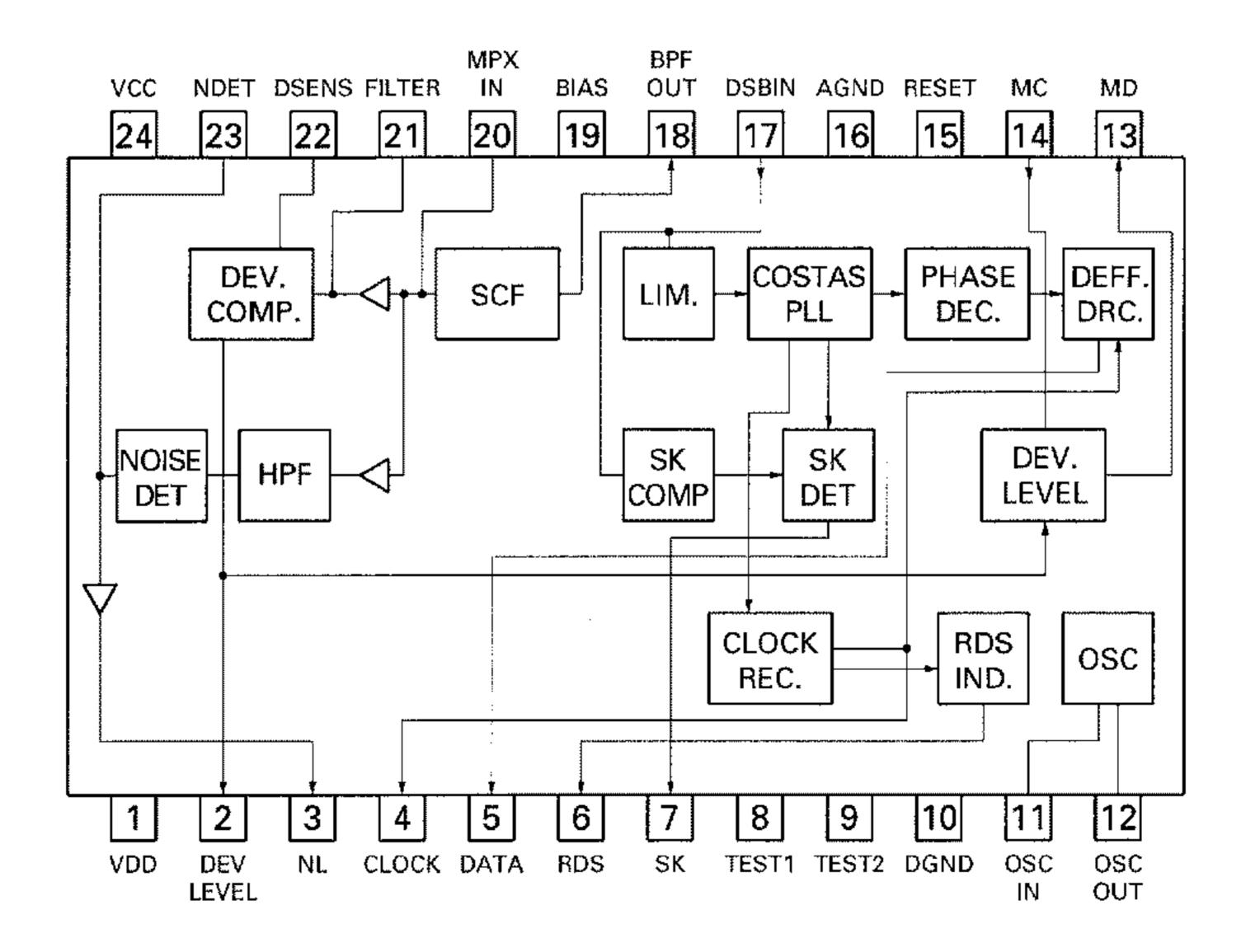
7. GENERAL INFORMATION

7.1 PARTS

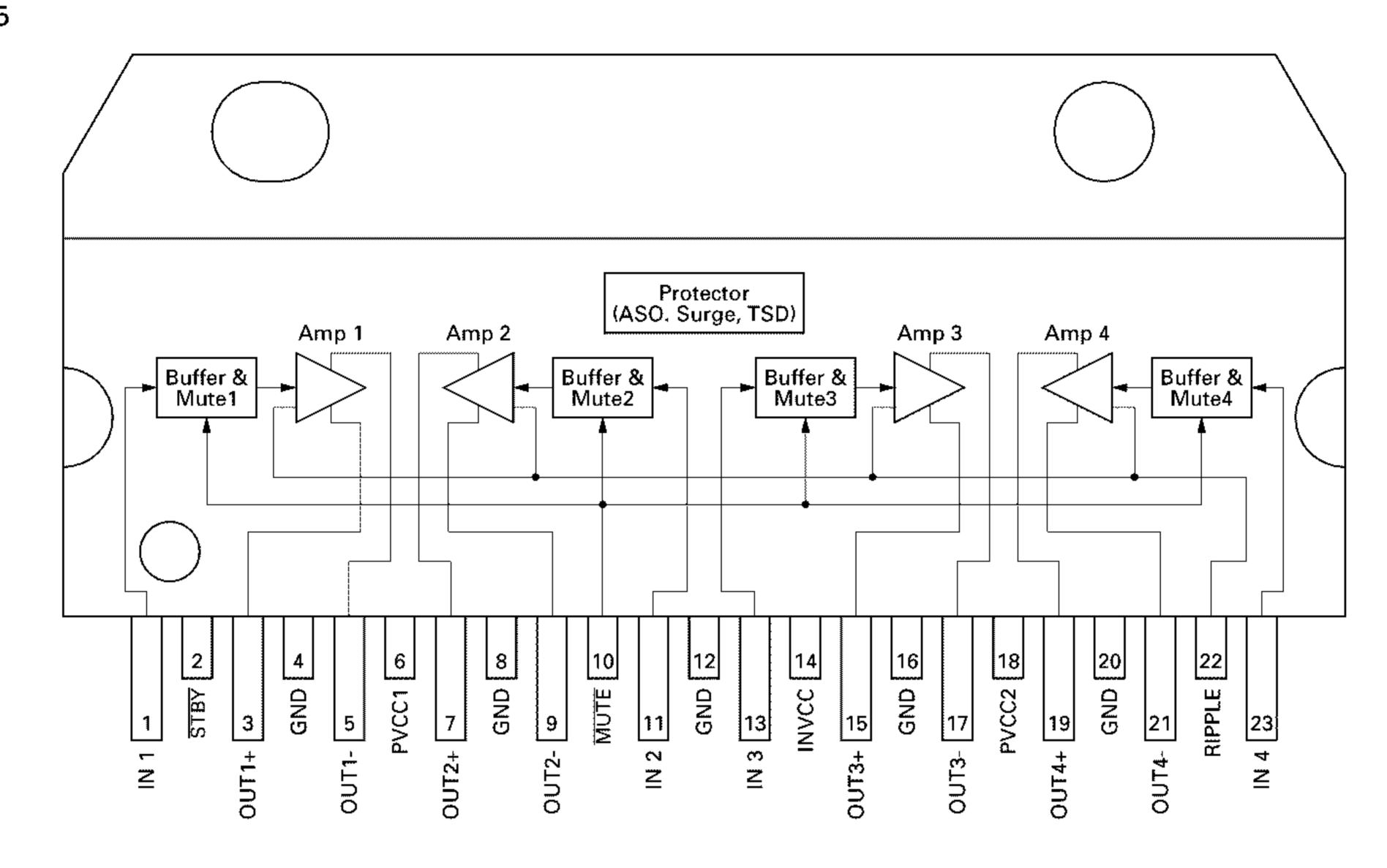
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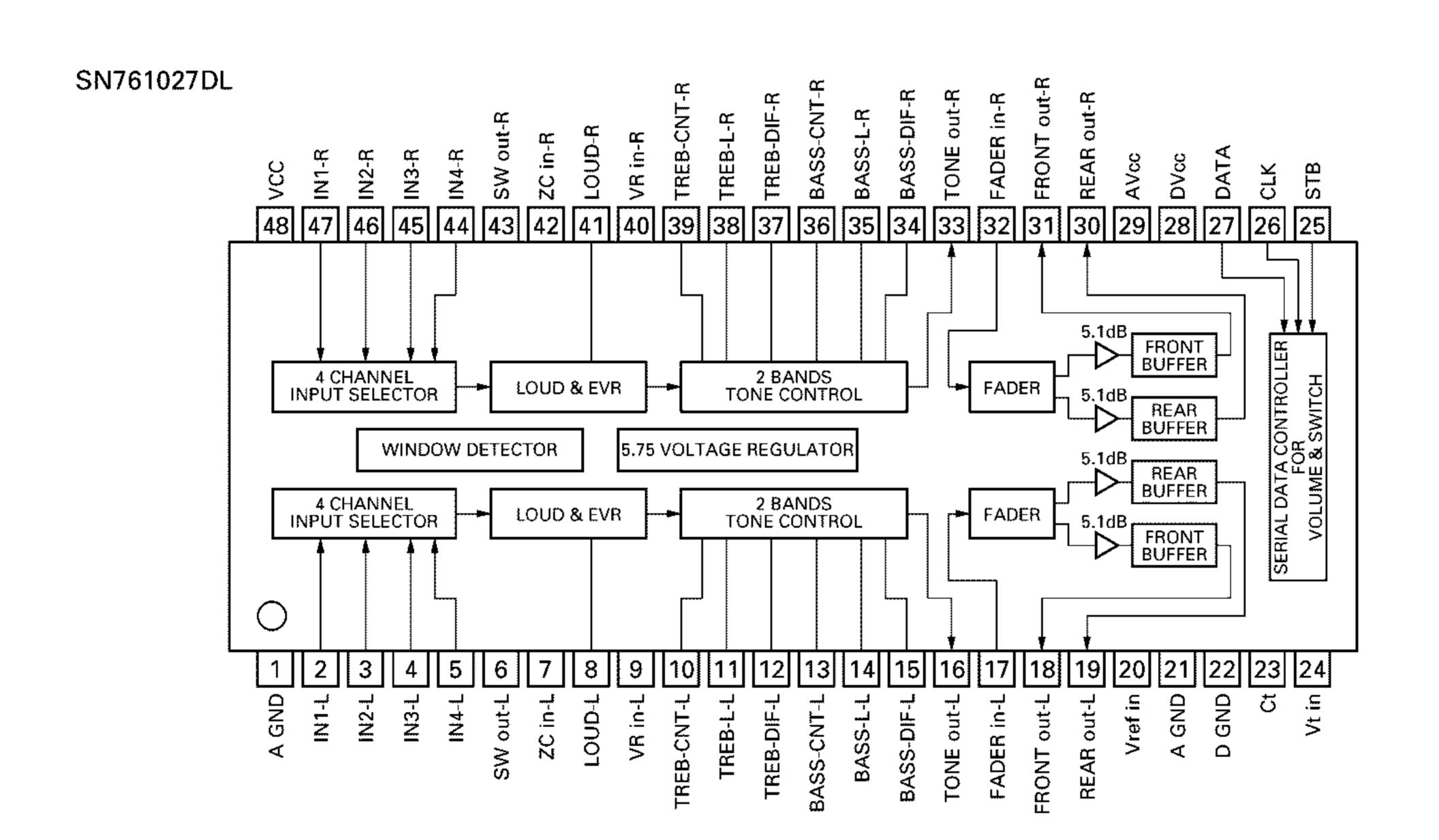


PM4006B

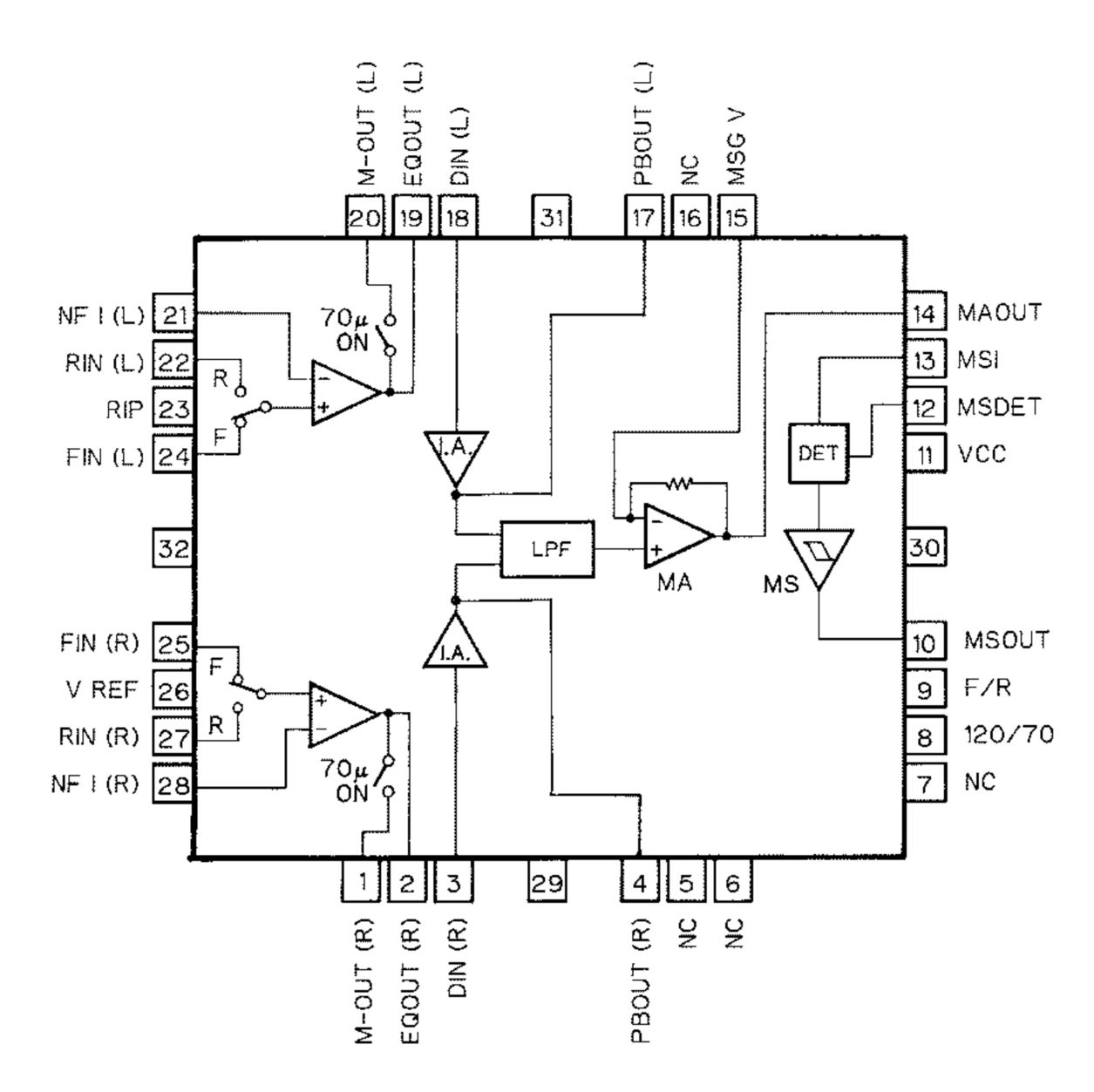


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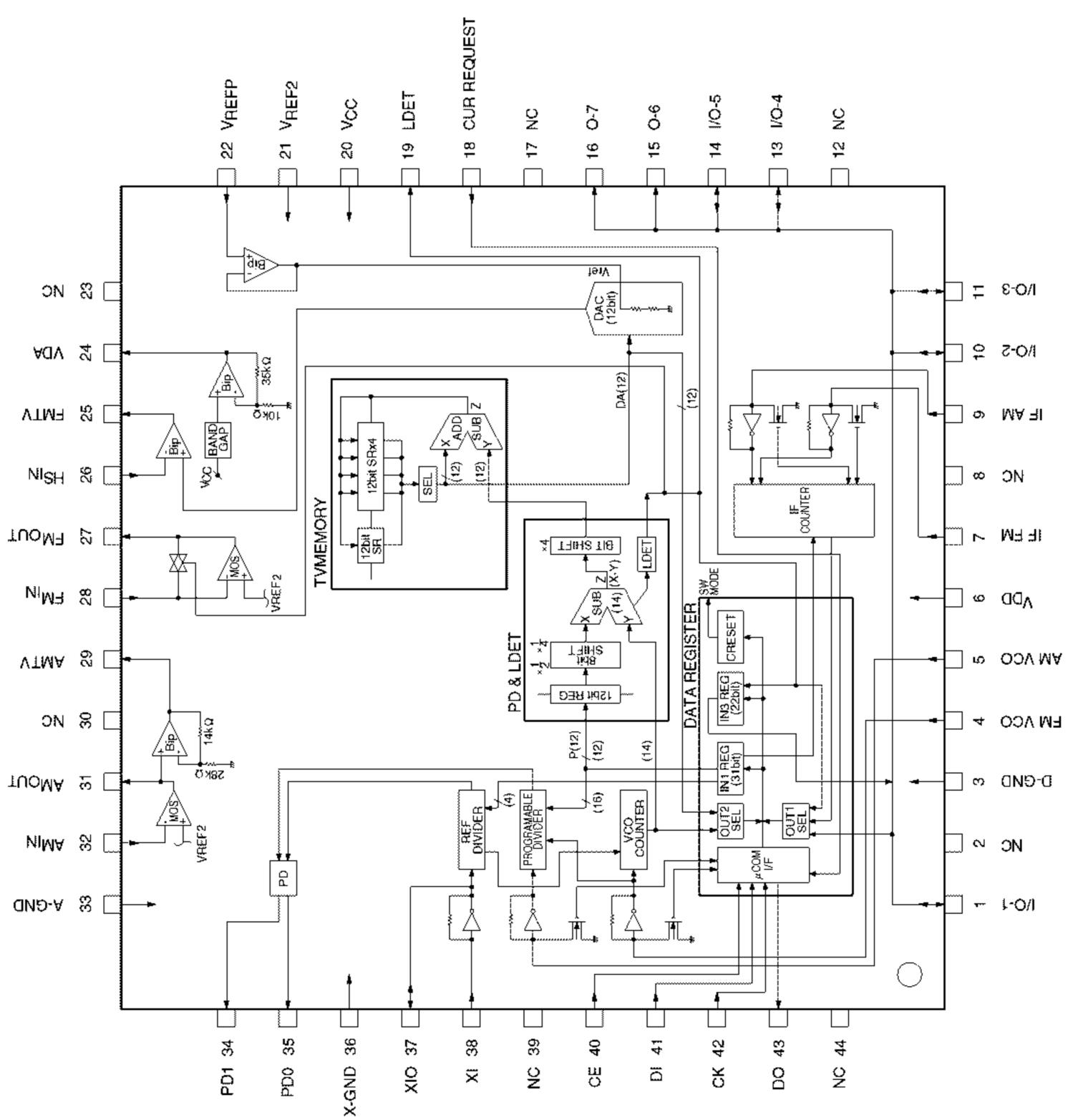




HA12197F



PM2007A

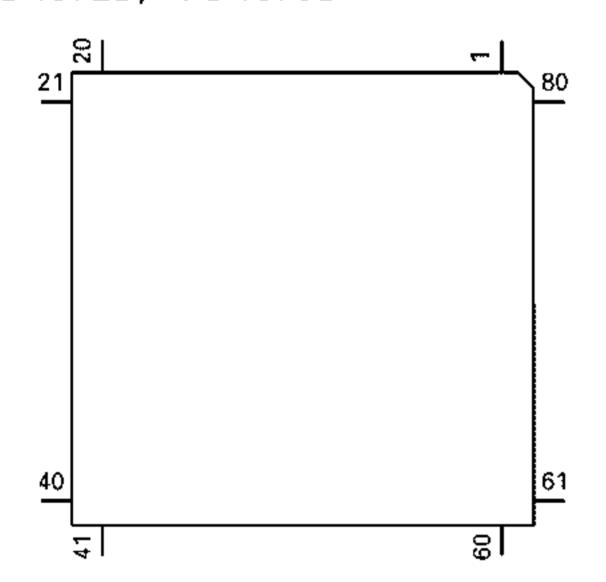


Pin Functions (PD4872B, PD4879B)

Pin No. Pin Name I/O Format Function and Operation	Pin Functions (PD4872B, PD4879B)					
2	Pin No.	Pin Name	I/O	Format		
3 ADPW	1	RDT	l		FROM data input	
4 GND	2	NC			Not used	
S	3	ADPW			A/D converter power	
6	4	GND			GND	
6	5	DRST	0	С	Decoder reset output	
7	6	MDSENS				
8	7		1			
9	8		<u> </u>			
10		- " ' ""	10	C		
11			 			
12			 			
13			+ '			
14	•••••					
15					•	
16						
17			+ -	U		
18						
19-21			<u> </u>		-	
22 SWVDD O C Grille power supply control output					•	
23						
24			0	С		
25						
26			0	С	 	
27	25	VCK	0	С		
28 MUTE O C Mute output	26	VST	0	С	Strobe pulse output for electronic volume	
29 DMINH	27	SYSPW	0	С	System power supply control output	
30,31	28	MUTE	0	С	Mute output	
32	29	DMINH	0	С	Mechanism mute cancel output	
33 GND	30,31	NC			Not used	
34-36	32	EW/BEW	1		Model sense input	
37	33	GND			GND	
38	34–36	NC			Not used	
38	37	TMUTE	0	Ν	Tuner mute output	
39	38	FM	0	С	<u> </u>	
40	39	NC				
A1-44			0	С		
45			 			
Not used 47		<u></u>	10	C		
47 RDS57K I 57kHzBP-OUT sense input 48 NC Not used 49 NC Not used 50 EJECT I Eject key input pin 51 TAPLD I Tape loading input 52 MECPW O C Cassette mechanism power output 53 MCMUT I Mechanism mute request 54 NOR/REV I Normal reverse input 55 MSIN I Cassette mechanism MS sense input 56 TX O C IP BUS data output 57 RX I IP BUS data input 58 MTL O C METAL output 59 NR O C NR output 60 RESET I Reset input 61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 64 ASENS I ACC power sense input 65			 	<u> </u>		
Mot used Mot used			 			
Not used Spect Figure Spect Spect			+ '			
50 EJECT 1 Eject key input pin			+			
TAPLD			1			
52 MECPW O C Cassette mechanism power output 53 MCMUT I Mechanism mute request 54 NOR/REV I Normal reverse input 55 MSIN I Cassette mechanism MS sense input 56 TX O C IP BUS data output 57 RX I IP BUS data input 58 MTL O C METAL output 59 NR O C NR output 60 RESET I Reset input 61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input			1			
53 MCMUT I Mechanism mute request 54 NOR/REV I Normal reverse input 55 MSIN I Cassette mechanism MS sense input 56 TX O C IP BUS data output 57 RX I IP BUS data input 58 MTL O C METAL output 59 NR O C NR output 60 RESET I Reset input 61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input			+ '_			
54 NOR/REV I Normal reverse input 55 MSIN I Cassette mechanism MS sense input 56 TX O C IP BUS data output 57 RX I IP BUS data input 58 MTL O C METAL output 59 NR O C NR output 60 RESET I Reset input 61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input			+ -	C		
55 MSIN I Cassette mechanism MS sense input 56 TX O C IP BUS data output 57 RX I IP BUS data input 58 MTL O C METAL output 59 NR O C NR output 60 RESET I Reset input 61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input			I		*	
56 TX O C IP BUS data output 57 RX I IP BUS data input 58 MTL O C METAL output 59 NR O C NR output 60 RESET I Reset input 61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input			<u> </u>			
57 RX I IP BUS data input 58 MTL O C METAL output 59 NR O C NR output 60 RESET I Reset input 61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input			+ -			
58 MTL O C METAL output 59 NR O C NR output 60 RESET I Reset input 61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input			<u> </u>	L	•	
59 NR O C NR output 60 RESET I Reset input 61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input						
60 RESET I Reset input 61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input			0	С	<u> </u>	
61 LDET I PLL lock sense input 62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input			0	С		
62 RCK I RDS demodulation clock input 63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input						
63 CLKIN I Clock input 64 ASENS I ACC power sense input 65 BSENS I Back up power sense input						
64 ASENS I ACC power sense input 65 BSENS I Back up power sense input	62	RCK	1		RDS demodulation clock input	
65 BSENS I Back up power sense input	63	CLKIN	1		Clock input	
	64	ASENS	l		ACC power sense input	
	65	BSENS	I		Back up power sense input	
<u> </u>	66	SD	I		SD input	

Pin No.	Pin Name	I/O	Format	Function and Operation
67	ST	-		Stereo input
68	VDD			Power supply
69	X2			Oscillator output
70	X1			Oscillator input
71	GND			GND
72	XT2			Not used
73	TESTIN	_		Test program mode input
74	AVDD			Positive power supply terminal for analog circuit
75	AVREF0			(A/D converter standard voltage input)
76	SL	_		Signal level input from tuner
77	CL	_		Synchronizing signal input of display data latch
78	NL	1		Noise level input
79–79	TL			Trigger level input
80	RDSLK			RDS LK signal input

*PD4872B, *PD4879B



Format	Meaning
С	C MOS
N	N channel open drain

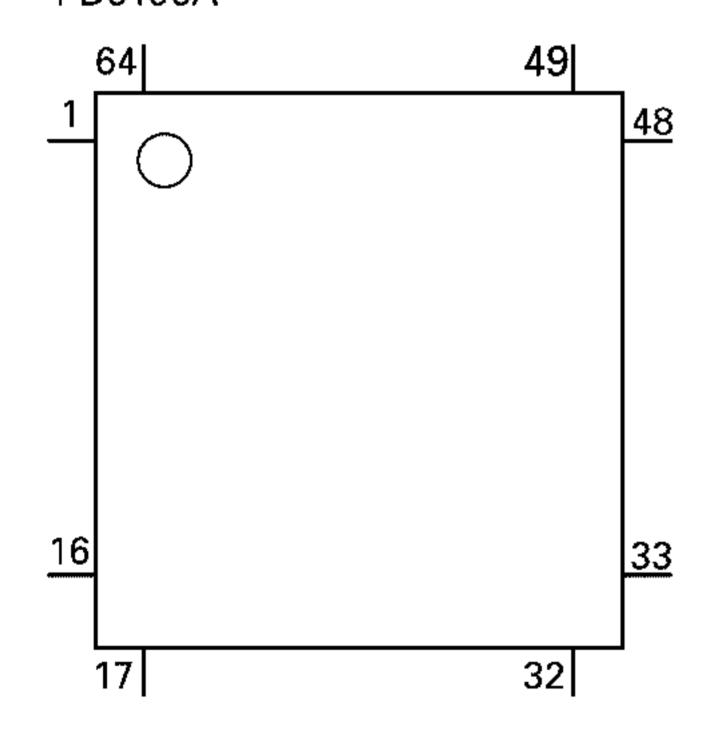
IC's marked by* are MOS type.

Be careful in handling them because they are very liable to be damaged by electrostatic induction.

● Pin Functions(PD6196A)

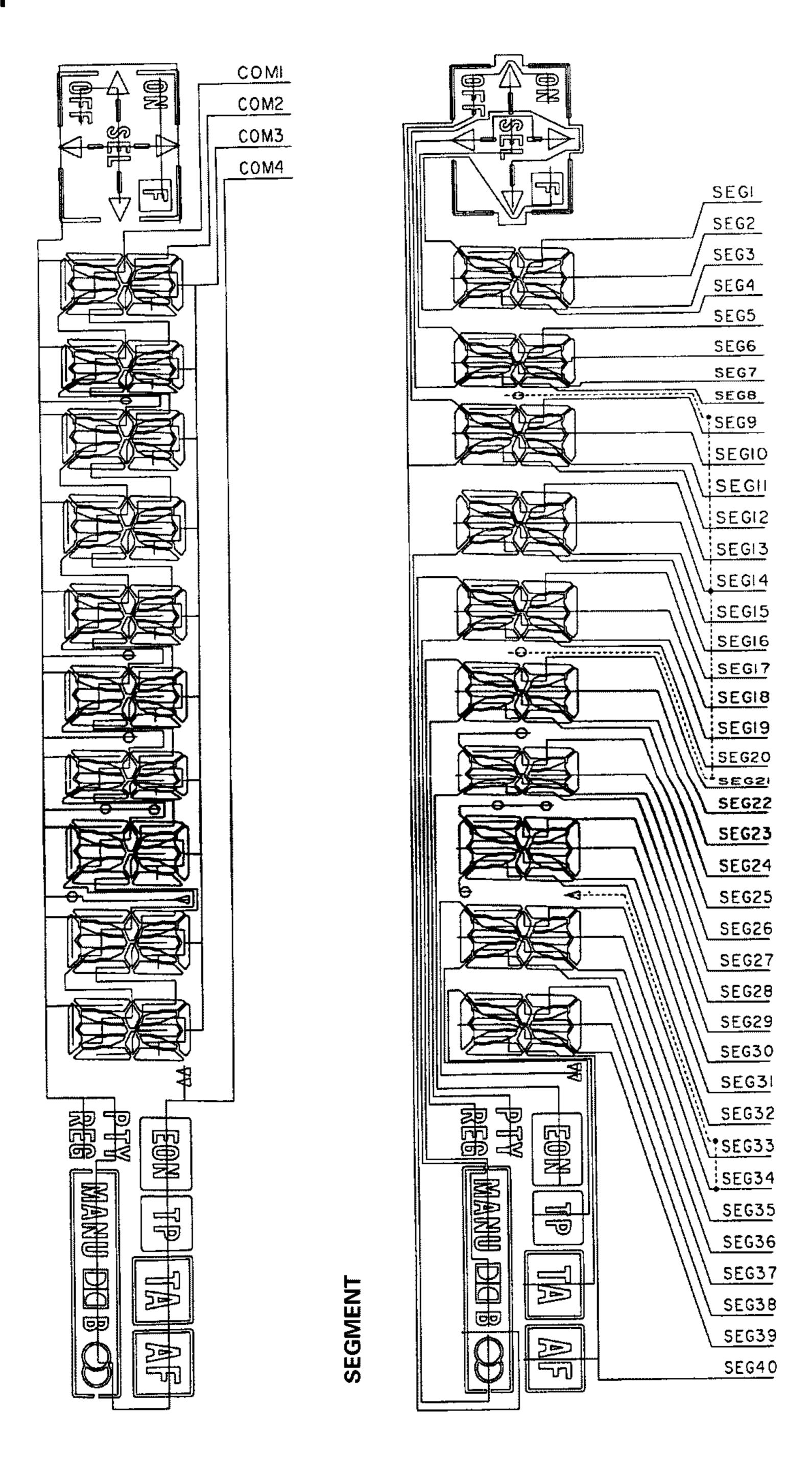
7 1 111 1 4110		1	
Pin No.	Pin Name	I/O	Function and Operation
1–5	SEG4-0	0	LCD segment output
6–9	COM3-0	0	Common driver output
10	V3		LCD bias power supply
11–14	KS4-1	0	Key strobe output
15,16	KD1,2		Key data input
17	REM	I	Remote control reception
18	SI	I	UART input
19	RST	1	System reset
20	SO	0	UART output
21	MODA		GND
22	X0		Crystal oscillator connection pin
23	X1		Crystal oscillator connection pin
24	VSS		GND
25,26	KD3,4		Key data input
27,28	KS6,5	0	Key strobe output
29–55	SEG39-13	0	LCD segment output
56	VCC		5V
57–64	SEG12-5	0	LCD segment output

*PD6196A



7.1.2 DISPLAY

● CAW1391



COMIMON

Fig. 16

7.2 DISASSEMBLY

Removing the Case(not shown)

- 1. Remove the three screws.
- 2. Remove the Case.

Removing the Cassette Mechanism Assy (not shown)

- 1. Remove the four screws.
- 2.Disconnect the connector, and then removing the Cassette Mechanism Assy.

Removing the Grille Assy(Fig.17)

- 1. Disengage the stopper at two locations indicated by arrows.
- 2. Remove the Grille Assy.

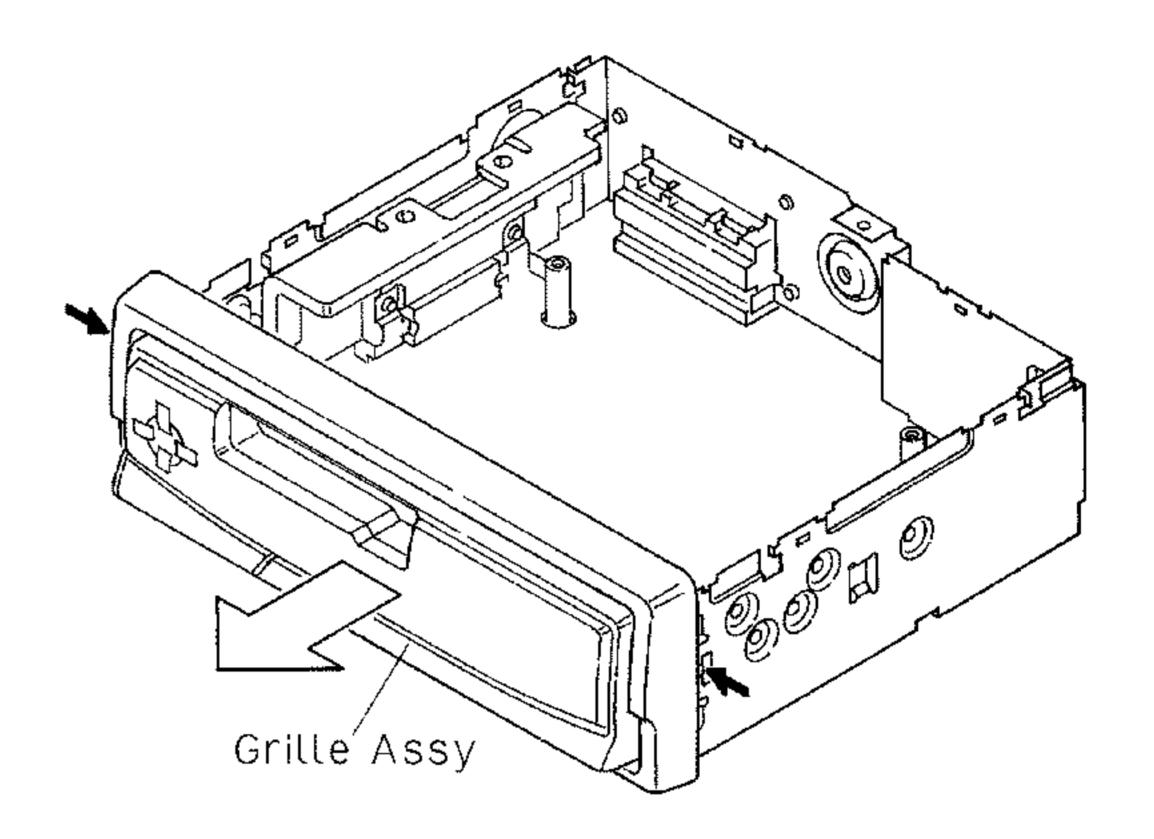


Fig. 17

Removing the Tuner Amp Unit(Fig.18)

- 1. Removing the three screws A, and two screws B.
- 2. Removing the screw C.
- 3. Unbend the tabs at a location indicated by arrow until straight.
- 4. Remove the Tuner Amp Unit.

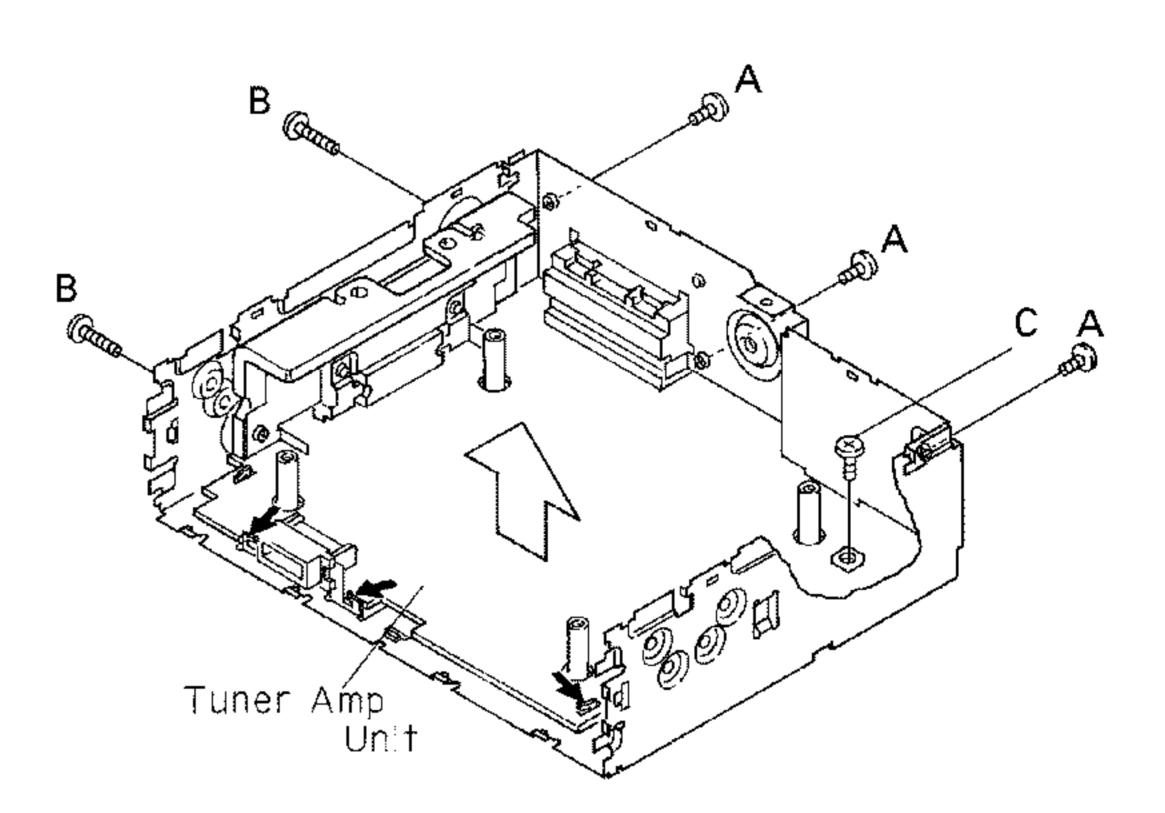
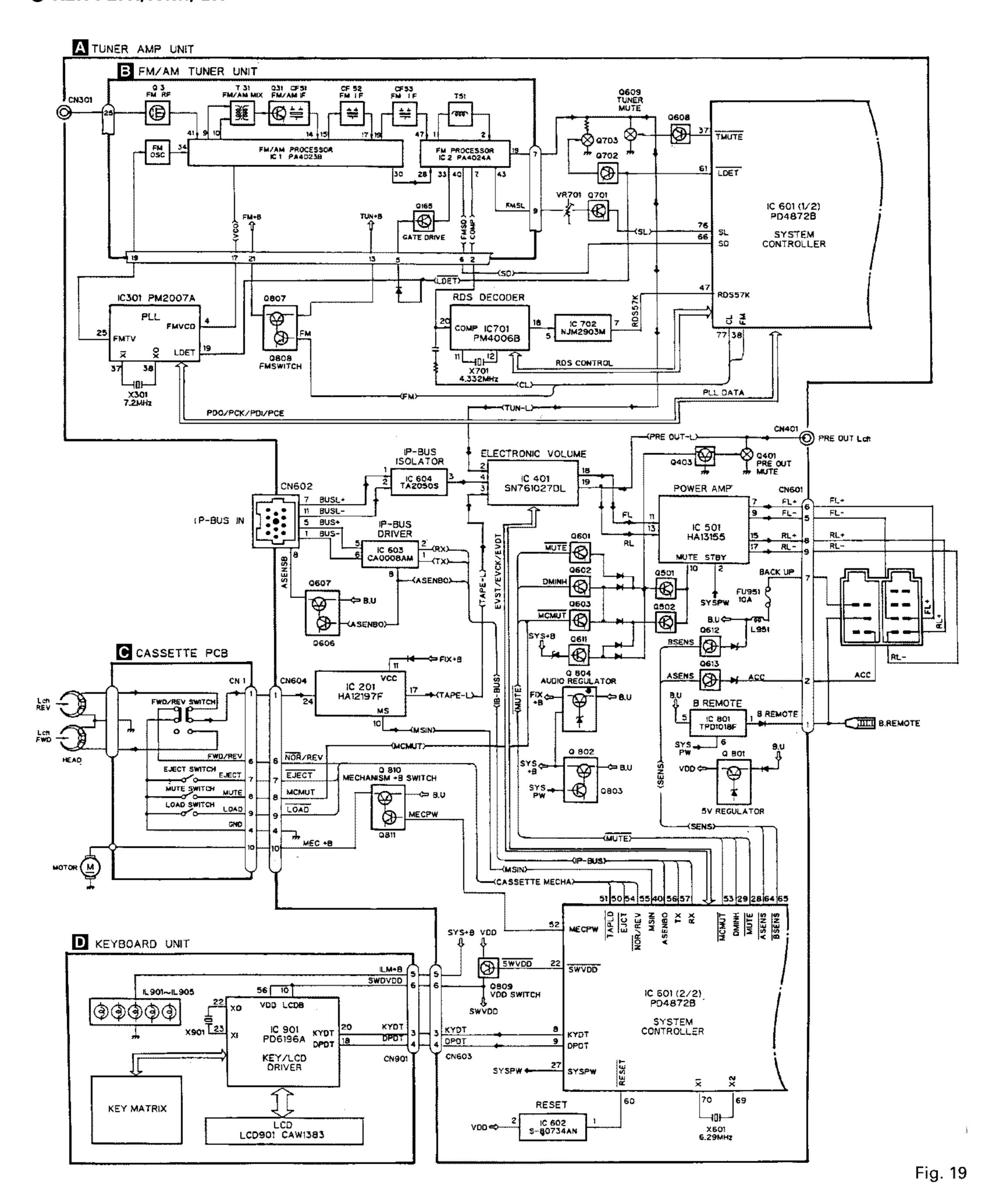


Fig.18

7.3 BLOCK DIAGRAM

● KEH-P27R/X1M/GR



8. OPERATIONS AND SPECIFICATIONS

● KEH-P27R/X1M/GR

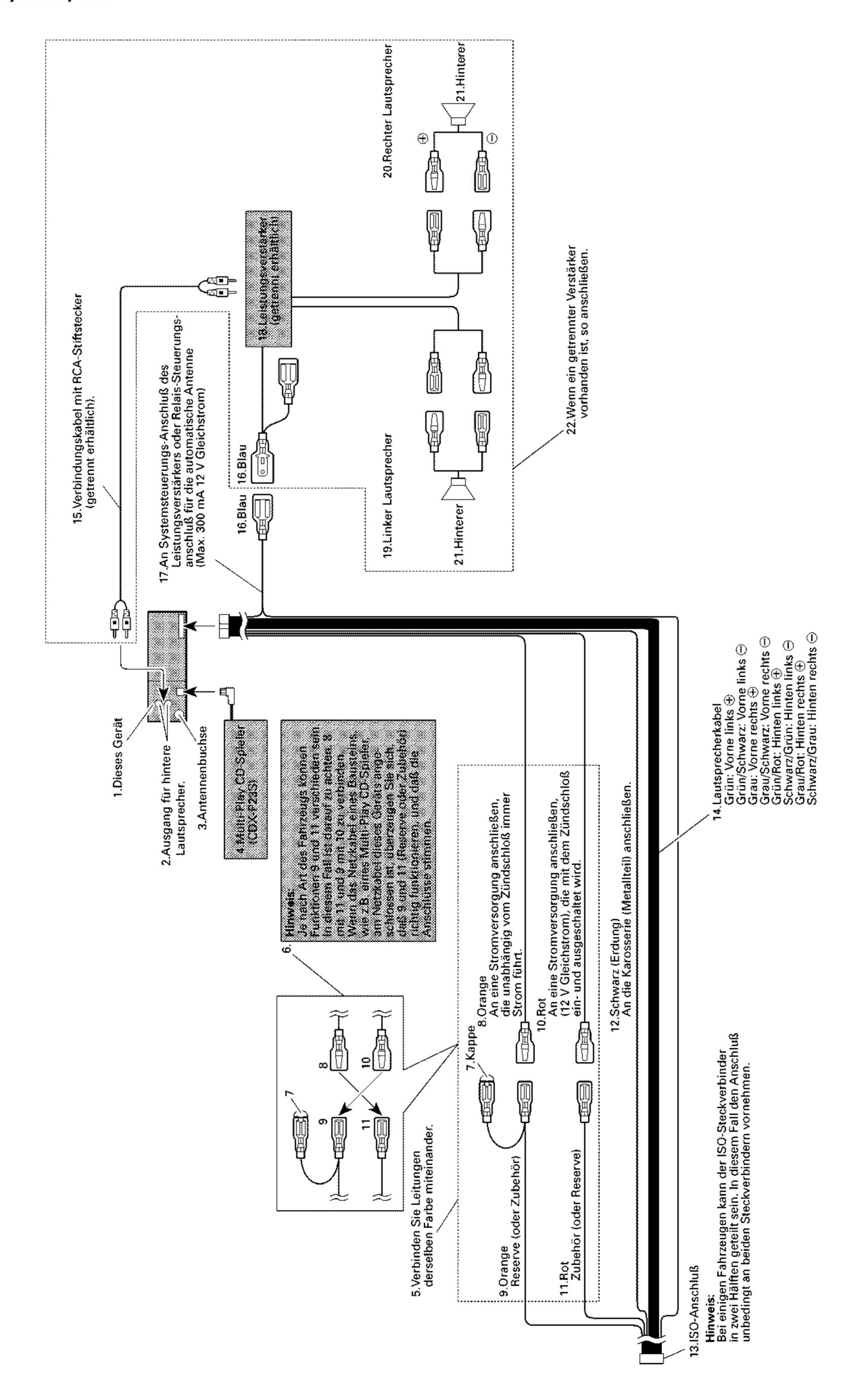


Fig. 20

8.1 OPERATIONS

Programmtyptaste (PTY) | Programmierbare Alternativfrequenz (TA/AF) sagebereitschaft/ Verkehrsdurch-DISPLAY/Uhrzeit Taste Taste für Taste für Tasten Tasten 1–6 Wellenbereichstaste (BAND) Cassettenklappe (DIO) Funktionstaste Audio-Taste (AU Taste +/-Programmquellentaste (SOURCE)

Wählen Sie die gewünschte Programmquelle (wie z.B. Tuner).

Ø

Einschalten

Mit jedem Druck auf die Taste SOURCE wird die Programmquelle in der

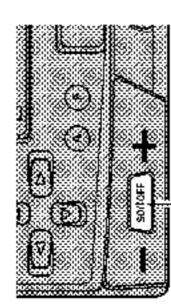
→ AUX nachstehenden Reihenfolge gewählt: Tuner → Tape → Multi-CD player -

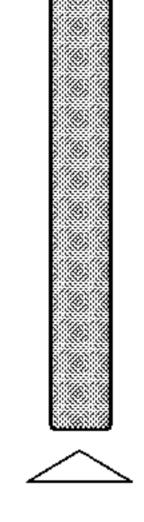
Hinweis:

- In den folgenden Fällen ändert sich die Programmquelle nicht:
 * Kein Multi-CD-Player ist an diesem Gerät angeschlossen.
 * Es befindet sich keine Cassette im Gerät.
 * Es befindet sich kein Magazin im Multi-CD-Player.
 * AUX (externer Eingang) ist ausgeschaltet (OFF).

Ausschalten

Die Programmquellen ausschalten.

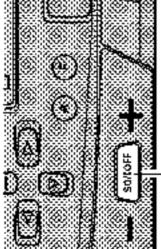




l Sekunde lang gedrückt halten

Grundlegender Tuner-Betrieb

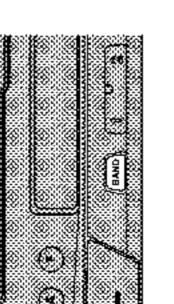
Tuner wählen.

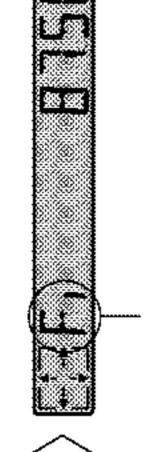


Die Programmquelle ändert sich mit jedem Druck ...

Der Programm-Service-Name oder die Frequenz erscheint im Display. (Bei Empfang eines Stereo-Senders leuchtet die Anzeige "O".)

Wählen Sie den gewünschten Wellenbereich. તં



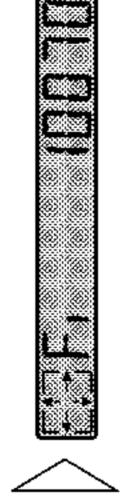


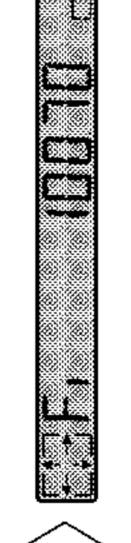
FIII

Stimmen Sie den Receiver auf eine höhere oder tiefere Frequenz ab.

'n







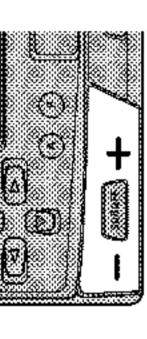
Der Tuner dieses Geräts gestattet Ihnen die Wahl der Abstimmung durch Ändern der Zeit, während der Sie die Taste drücken.

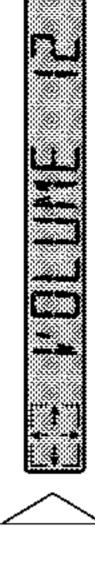
0,3 Sekunden oder weniger	0.3 - 2 Sekunden	2 Sekunden oder mehr
Manuelle Abstimmung (Schritt für Schritt)	Suchlauf-Abstimmung	Manuelle Abstimmung (fortlaufend)

Hinweis:

Zur Wahl eines schwachen Rundfunksenders, der mit der Suchlauf-Abstimmfunktion nicht einstellbar ist, benutzen Sie das manuelle Abstimmverfahren.

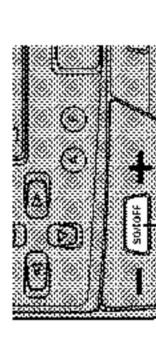
Lautstärke. Erhöhen oder senken Sie die

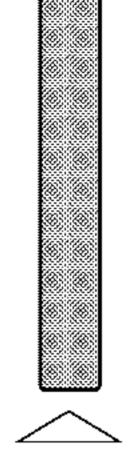




Schalten Sie die Programmq

vi



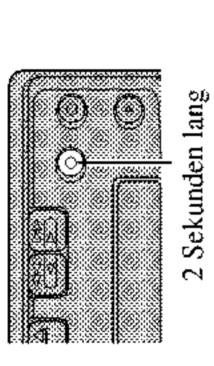


Sekunde lang gedrückt halten

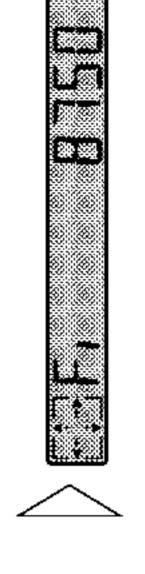
AF-Funktionsumschaltung

AFkann ein- und ausgeschaltet werden. eb ausgeschaltet werden. Die AF-Funktion dieses Produkts sollte für normalen Abstimmbetri

Schalter AF ausgeschaltet (OFF)



gedrückt halten



Zum Einschalten von AF wiederholen Sie das obige Verfahren.

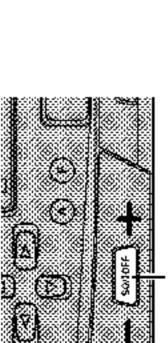
Hinweis:

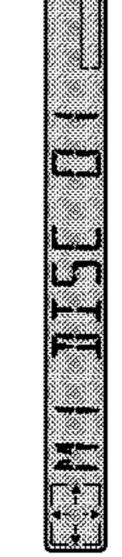
Die AF-Funktion kann auch im Funktionsmenü ein- und ausgeschaltet werden.

Mit diesem Gerät kann ein CDX-P23S gesteuert werden.

Grundlegender Betrieb eines Multi-CD-Players

Wählen Sie die Multi-CD-Player-Programmquelle.

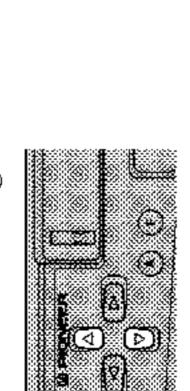


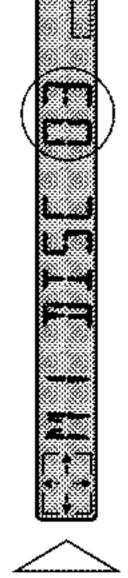


Die Programmquelle ändert sich mit jedem Druck ...

- Der Multi-CD-Player kann einen vorbereitenden Betriebsschritt durchführen, wie z.B. Überprüfung des Vorhandenseins einer Disc oder Lesen der Disclarfung formation, wenn der Strom eingeschaltet oder eine neue Disc für Wiedergabe gewählt wird. "READY" wird angezeigt.
 Wenn der Multi-CD-Player nicht richtig funktionieren kann, wird eine Fehlermeldung, wie z.B. "ERROR 14", angezeigt. Siehe Bedienungsanleitung für den Multi-CD-Player.
- Wählen Sie die gewünschte Disc.

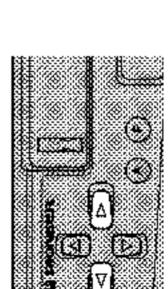
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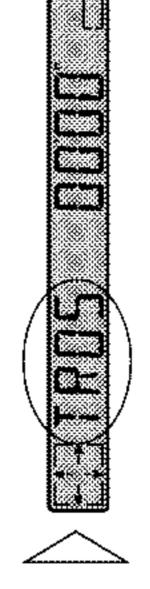




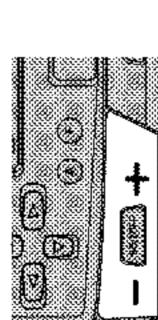
Schalten Sie Titel für Titel vorwärts oder rückwärts.

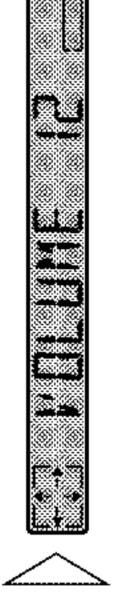
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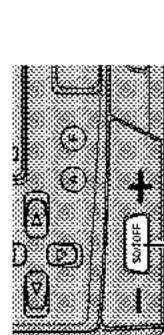


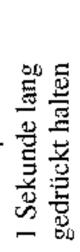
Stellen Sie die Lautstärke wunschgemäß ein. 4





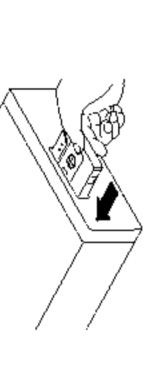


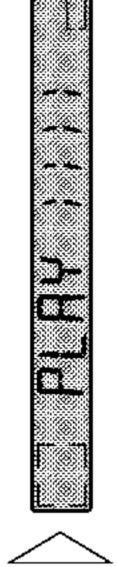




Grundlegender Betrieb des Cassettenspielers

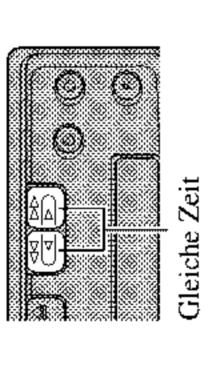
Schieben Sie eine Cassette ein.





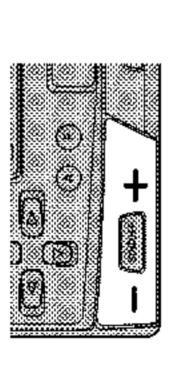
Wählen Sie Wiedergabe von Seite

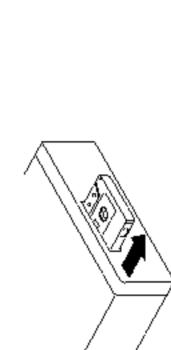
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Stellen Sie die Lautstärke wunschgemäß ein. ω





Entfernen Sie die Cassette.

4

Hinweis:
• Der Cassettenbetrieb kann bei eingeschober

8.2 SPECIFICATIONS

Technische DatenAndere Funktionen

Allgemeines	Cassettenspieler		
Stromversorgung 14,4 V Gleichspannung	Band Kompakt-Cassettenband (C-30 – C-90		
(Toleranz 10,8 – 15,1 V)	Bandlaufgeschwindigkeit		
Erdungssystem			
Max. Leistungsaufnahme	Umspulzeit		
Abmessungen	Gleichlaufschwankungen		
(Einbaugröße) 178 (B) × 50 (H) × 150 (T) mm	Frequenzgang		
(Frontfläche)	Stereotrennung		
Gewicht 1,2 kg	Rauschabstand 52 dB (IEC-A-Netz		
Verstärker	UKW-Tuner		
Max. Ausgangsleistung	Frequenzbereich		
Dauer-Ausgangsleistung	Nutzempfindlichkeit		
(DIN 45324, +B = 14.4 V)			
Lastimpedanz	50-dB-Geräuschberuhigung		
Klangfarbenregler			
(Tiefen) ±12 dB (100 Hz)	Rauschabstand		
(Höhen) ±12 dB (10 kHz)	Verzerrungen		
Loudness-Kontur +10 dB (100 Hz), +7 dB (10 kHz)	Frequenzgang		
(Lautstärke: -30 dB)	Stereotrennung		
(KEH-P27R/X1M/GR)			
Preout-Ausgangspegel/			
Ausgangsimpedanz 500 mV/1 kΩ			

Hinweis:

 Änderungen der technischen Daten und des Designs jederzeit vorbehalten.